Infinite Arthroscopy Inc. LLC DBA Indago

TEST REPORT FOR

Wireless USB Module, RTU7105-MOD-V3
Flexible UWB Antenna, FXUWB10.07.0100C

Tested to The Following Standards:

FCC Part 15 Subpart F Section: 15.519

Report No.: 104477-8

Date of issue: December 22, 2020

This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

Test Certificate # 803.01

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Testing the Future
CKC LABORATORIES, INC.

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ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

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REPORT PREPARED BY:

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Project Number: 104477

DATE OF EQUIPMENT RECEIPT: December 1, 2020
DATE(S) OF TESTING: December 1, 3, and 4, 2020

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the equipment provided by the client, tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.

Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information

Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
1120 Fulton Place
Fremont, CA 94539

Software Versions

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.03.19

Site Registration & Accreditation Information

Location	*NIST CB #	FCC	Canada	Japan
Canyon Park, Bothell, WA	US0103	US1024	3082C	A-0136
Brea, CA	US0103	US1024	3082D	A-0136
Fremont, CA	US0103	US1024	3082B	A-0136
Mariposa, CA	US0103	US1024	3082A	A-0136

*CKC's list of NIST designated countries can be found at: https://standards.gov/cabs/designations.html

SUMMARY OF RESULTS

Standard: FCC Part 15 Subpart F - 15.519 (Technical requirement for hand-held UWB systems)

Test Procedure	Description	Modifications	Results
15.519 (c)	Radiated Emissions & Band Edge	NA	PASS
15.519 (d)	Radiated Emissions in GPS bands	NA	PASS
15.519(e)	Peak EIRP fundamental with limit of 0dBm / 50MHz	NA	PASS

NA = Not Applicable

ISO/IEC 17025 Decision Rule
The declaration of pass or fail herein is based upon assessment to the specification(s) listed above, including where applicable, assessment of measurement uncertainties. For performance related tests, equipment was monitored for specified criteria identified in that section of testing.

Modifications During Testing

This list is a summary of the modifications made to the equipment during testing.

Summary of Conditions
No modifications were made during testing.

Modifications listed above must be incorporated into all production units.

Conditions During Testing

This list is a summary of the conditions noted to the equipment during testing.

Summary of Conditions
None

EQUIPMENT UNDER TEST (EUT)

During testing, numerous configurations may have been utilized. The configurations listed below support compliance to the standard(s) listed in the Summary of Results section.

Configuration 1

Equipment Under Test

Device Name	Manufacturer	Model #	S/N
Wireless USB Module	Starix	RTU7105-MOD-V3	0001
Flexible UWB Antenna	taoglas	FXUWB10.07.0100C	NA

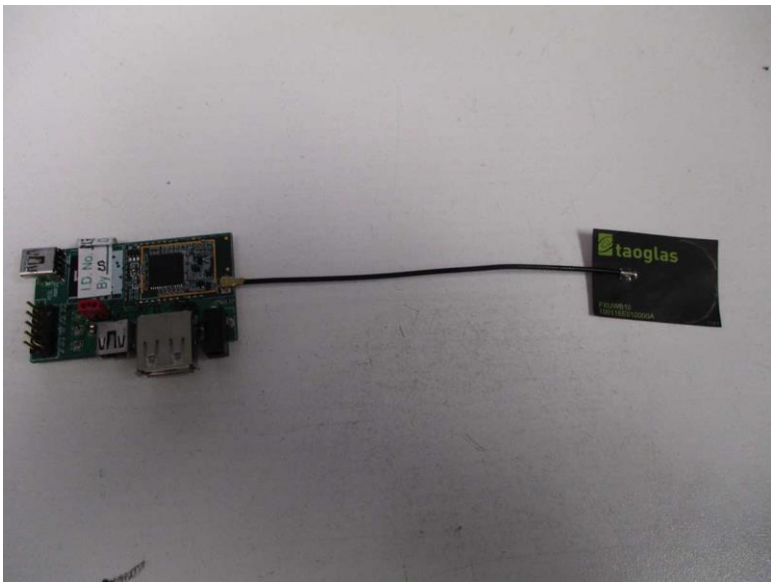
Support Devices:

Device Name	Manufacturer	Model #	S/N
Laptop	Lenovo	R61i	L3-M3305
Laptop Power Supply	Lenovo	45N0193	11S45N0193Z1ZK1C25G1NM

General Product Information:

Product Information	Manufacturer-Provided Details
Equipment Type:	Radio Module
Type of Wideband System:	Ultra-Wideband
Operating Frequency Range:	3100 MHz to 4800 MHz 6300 MHz to 8000 MHz
Modulation Type(s):	Multiband OFDM
Maximum Duty Cycle:	100%
Number of TX Chains:	1
Antenna Type(s) and Gain:	5dBi
Beamforming Type:	NA
Antenna Connection Type:	IPEX MHFHT
Nominal Input Voltage:	5VDC from the laptop
Firmware / Software used for Test:	UWB PHY Test Utility

EUT Photo(s)



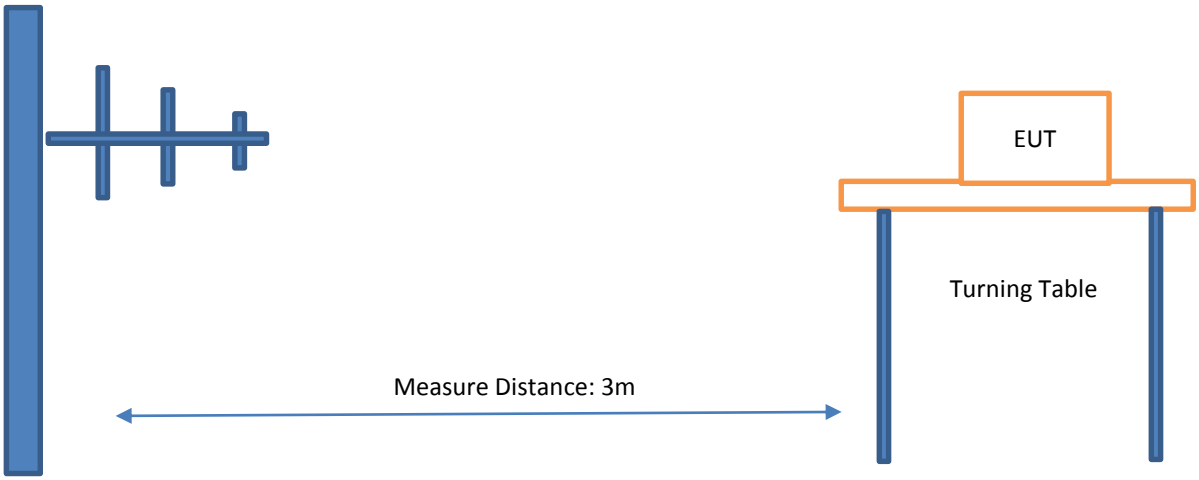
Support Equipment Photo(s)

Laptop

Power Supply

Block Diagram of Test Setup(s)

Radiated Method Setup



FCC Part 15 Subpart F

15.519(c) Radiated Emissions and Band Edge

General Test Setup/Conditions

The EUT is placed non-conducted table. It is operated as intended. The EUT is connected to the laptop through mini USB cable which is under the table to configure and power the EUT.

The test distance of Band Group 1 is 3m. (SB1, SB2 and SB3)
The test distance of Band Group 3 is 1m. (SB7, SB8, and SB9)

Test Setup / Conditions / Data

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/4/2020
Test Type:	**Radiated Scan**	Time:	15:44:45
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	115
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

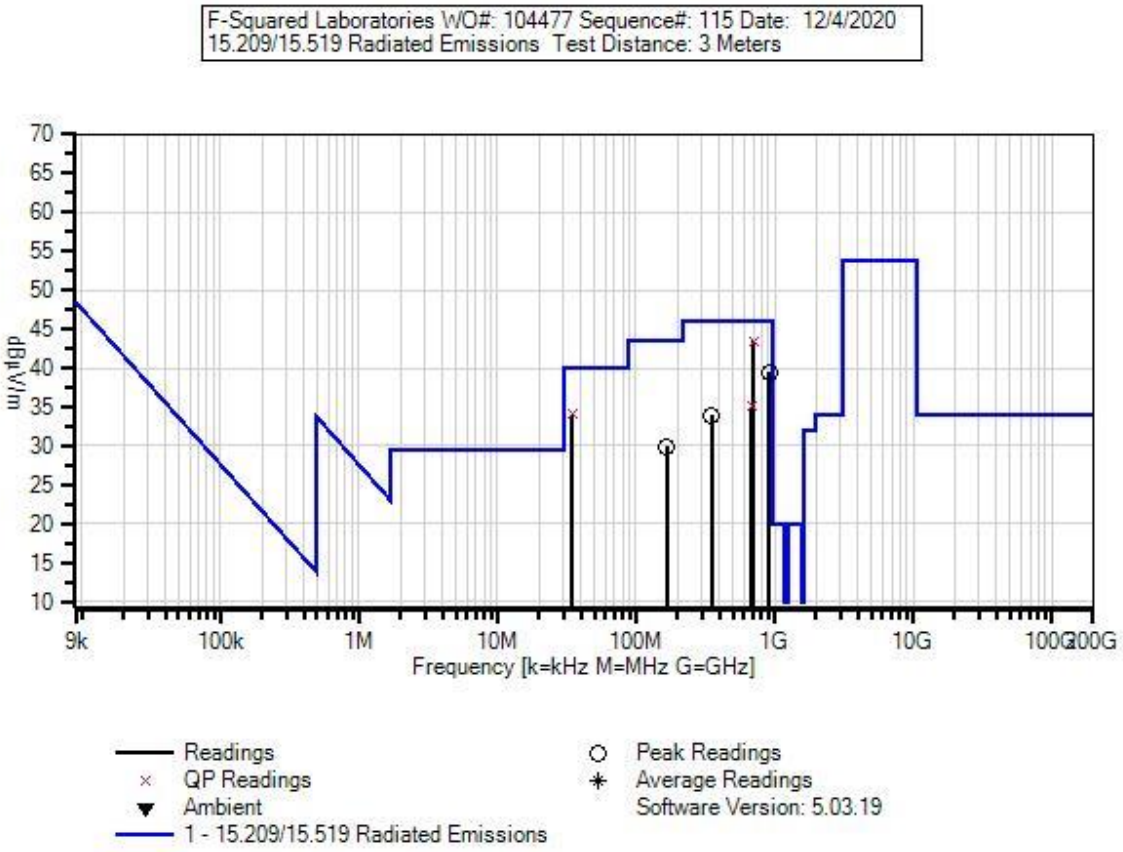
Radiated Emissions
Frequency Range: 9kHz to 1GHz

Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Test Methods: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 80cm.
It is connected to a laptop which is put inside the chamber.
Using UWB software to configure the EUT.

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Z -axis is the worst case
SB1



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP07508	Preamp	310N	7/9/2020	7/9/2022
T2	AN00852	Biconilog Antenna	CBL 6111C	4/14/2020	4/14/2022
T3	ANP06049	Attenuator	PE7002-6	5/11/2020	5/11/2022
T4	ANP01187	Cable	CNT-195	7/6/2020	7/6/2022
T5	ANP06691	Cable	PE3062-180	3/25/2020	3/25/2022
T6	ANP06694	Cable	PE3062-480	3/25/2020	3/25/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	707.283M QP	43.9	-32.0 +1.1	+21.1 +2.8	+6.0	+0.6	+0.0	43.5	46.0	-2.5	Vert
^	707.283M	50.2	-32.0 +1.1	+21.1 +2.8	+6.0	+0.6	+0.0	49.8	46.0	+3.8	Vert
3	34.732M QP	42.8	-32.0 +0.2	+16.7 +0.4	+5.9	+0.0	+0.0	34.0	40.0	-6.0	Vert
^	34.732M	47.1	-32.0 +0.2	+16.7 +0.4	+5.9	+0.0	+0.0	38.3	40.0	-1.7	Vert
5	919.594M	36.1	-31.2 +1.3	+23.4 +3.3	+5.9	+0.7	+0.0	39.5	46.0	-6.5	Horiz
6	677.821M QP	36.1	-32.0 +1.0	+20.7 +2.7	+5.9	+0.6	+0.0	35.0	46.0	-11.0	Vert
^	677.821M	41.5	-32.0 +1.0	+20.7 +2.7	+5.9	+0.6	+0.0	40.4	46.0	-5.6	Vert
8	353.717M	42.2	-31.8 +0.7	+14.6 +1.8	+6.0	+0.4	+0.0	33.9	46.0	-12.1	Horiz
9	165.894M	43.9	-32.0 +0.4	+10.2 +1.2	+6.0	+0.2	+0.0	29.9	43.5	-13.6	Horiz

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/3/2020
Test Type:	**Radiated Scan**	Time:	09:50:01
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	37
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Radiated Emissions
Frequency Range: 1GHz to 40GHz

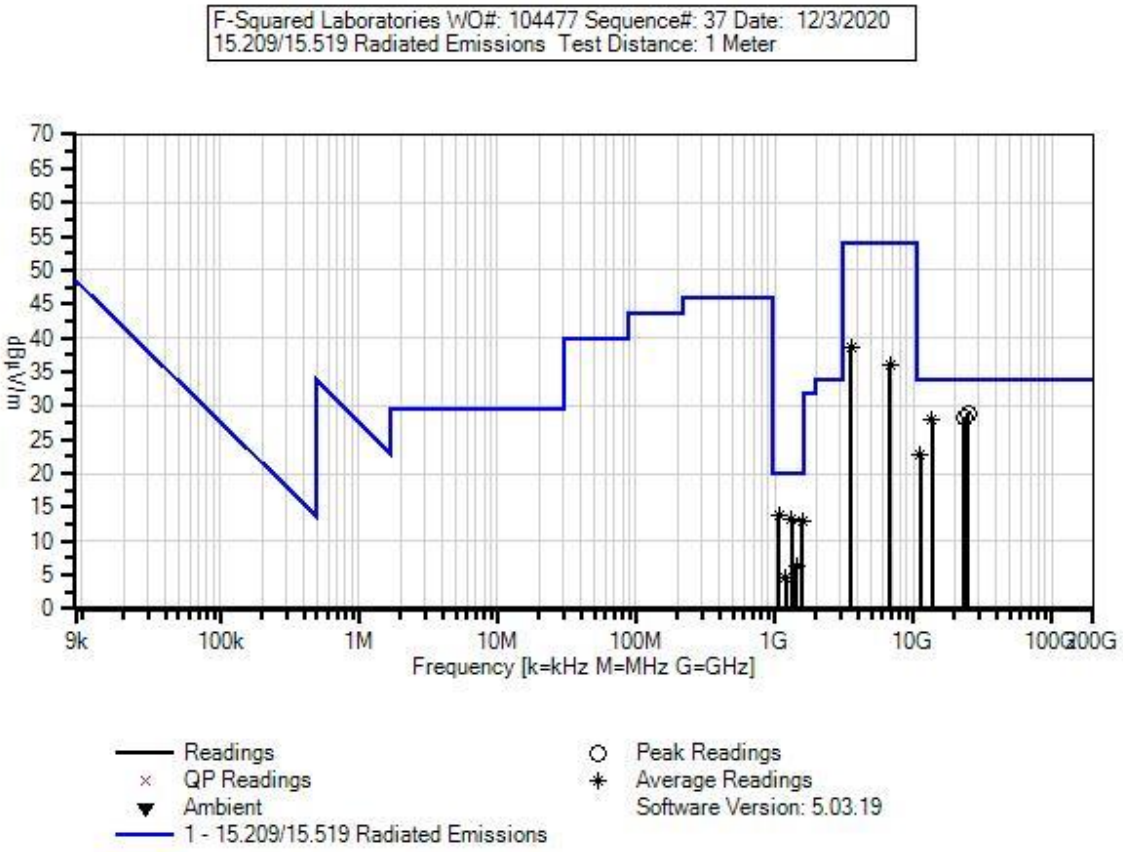
Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Test Method: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 150cm.
It is connected to a laptop which is put outside the chamber.
Using UWB software to configure the EUT.

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Note:
Z -axis is the worst case

SB1



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/15/2019	1/15/2021
T2	ANP01210	Cable	FSJ1P-50A-4A	11/2/2020	11/2/2022
T3	ANP06902	Cable	32022-29094K-29094K-36TC	8/13/2020	8/13/2022
T4	AN03302	Cable	32026-29094K-29094K-72TC	1/9/2020	1/9/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T5	AN03713	Preamp	01001800-221055-202525	5/22/2019	5/22/2021
T6	AN02810	Preamp	83051A	7/16/2019	7/16/2021
	AN02695	Active Horn Antenna	AMFW-5F-260400-33-8P	8/15/2019	8/15/2021
T7	AN03619	Cable	OKOCQoCQ177.2	11/5/2019	11/5/2021
	ANP00930	Cable	various	1/9/2020	1/9/2022
T8	ANP06898	Cable	32022-29094K-29094K-48TC	3/25/2020	3/25/2022
T9	AN02694	Horn Antenna	AMFW-5F-18002650-20-10P	8/15/2019	8/15/2021
T10	ANP00929	Cable	various	1/9/2020	1/9/2022
T11	AN02693	Active Horn Antenna	AMFW-5F-12001800-20-10P	8/15/2019	8/15/2021
T12	ANP00928	Cable	various	1/9/2020	1/9/2022

Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq	Rdng	T1 T5 T9	T2 T6 T10	T3 T7 T11	T4 T8 T12	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	24746.061 M	66.4	+0.0 +0.0 -15.6	+0.0 -28.1 +3.1	+0.0 +9.2 +0.0	+0.0 +3.4 +0.0	-9.5	28.9	33.9	-5.0	Vert
2	23223.360 M	65.5	+0.0 +0.0 -16.5	+0.0 -26.6 +3.1	+0.0 +9.0 +0.0	+0.0 +3.3 +0.0	-9.5	28.3	33.9	-5.6	Horiz
3	13728.055 M Ave	71.4	+0.0 +0.0 +0.0	+0.0 -29.5 +0.0	+0.0 +6.7 -14.4	+0.0 +2.4 +0.8	-9.5	27.9	33.9	-6.0	Horiz
^	13728.007 M	76.0	+0.0 +0.0 +0.0	+0.0 -29.5 +0.0	+0.0 +6.7 -14.4	+0.0 +2.4 +0.8	-9.5	32.5	33.9	-1.4	Horiz
5	1080.074M Ave	54.2	+24.2 -58.3 +0.0	+1.7 +0.0 +0.0	+0.5 +0.0 +0.0	+1.1 +0.0 +0.0	-9.5	13.9	19.9	-6.0	Horiz
6	1080.074M Ave	54.2	+24.2 -58.3 +0.0	+1.7 +0.0 +0.0	+0.5 +0.0 +0.0	+1.1 +0.0 +0.0	-9.5	13.9	19.9	-6.0	Horiz
^	1080.074M	61.0	+24.2 -58.3 +0.0	+1.7 +0.0 +0.0	+0.5 +0.0 +0.0	+1.1 +0.0 +0.0	-9.5	20.7	19.9	+0.8	Horiz
8	1320.107M Ave	53.3	+24.3 -58.3 +0.0	+1.9 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	13.2	19.9	-6.7	Horiz
^	1320.107M	62.7	+24.3 -58.3 +0.0	+1.9 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	22.6	19.9	+2.7	Horiz
10	1584.039M Ave	52.1	+24.9 -58.3 +0.0	+2.0 +0.0 +0.0	+0.7 +0.0 +0.0	+1.0 +0.0 +0.0	-9.5	12.9	19.9	-7.0	Horiz
^	1584.039M	61.2	+24.9 -58.3 +0.0	+2.0 +0.0 +0.0	+0.7 +0.0 +0.0	+1.0 +0.0 +0.0	-9.5	22.0	19.9	+2.1	Horiz
12	11255.100 M Ave	39.1	+38.3 -55.7 +0.0	+5.9 +0.0 +0.0	+1.8 +0.0 +0.0	+2.9 +0.0 +0.0	-9.5	22.8	33.9	-11.1	Vert
^	11255.100 M	52.4	+38.3 -55.7 +0.0	+5.9 +0.0 +0.0	+1.8 +0.0 +0.0	+2.9 +0.0 +0.0	-9.5	36.1	33.9	+2.2	Vert
14	1438.512M Ave	46.3	+24.4 -58.3 +0.0	+2.0 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	6.4	19.9	-13.5	Horiz
^	1438.512M	65.8	+24.4 -58.3 +0.0	+2.0 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	25.9	19.9	+6.0	Horiz

16	3549.985M Ave	68.7	+30.7 -57.0 +0.0	+3.2 +0.0 +0.0	+1.0 +0.0 +0.0	+1.5 +0.0 +0.0	-9.5	38.6	53.9	-15.3	Vert
^	3549.985M	91.3	+30.7 -57.0 +0.0	+3.2 +0.0 +0.0	+1.0 +0.0 +0.0	+1.5 +0.0 +0.0	-9.5	61.2	53.9	+7.3	Vert
18	1202.250M Ave	44.8	+24.2 -58.3 +0.0	+1.8 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	4.5	19.9	-15.4	Horiz
^	1202.250M	65.4	+24.2 -58.3 +0.0	+1.8 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	25.1	19.9	+5.2	Horiz
20	6864.060M Ave	59.8	+35.0 -57.5 +0.0	+4.4 +0.0 +0.0	+1.5 +0.0 +0.0	+2.2 +0.0 +0.0	-9.5	35.9	53.9	-18.0	Vert
^	6864.060M	72.1	+35.0 -57.5 +0.0	+4.4 +0.0 +0.0	+1.5 +0.0 +0.0	+2.2 +0.0 +0.0	-9.5	48.2	53.9	-5.7	Vert

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/4/2020
Test Type:	**Radiated Scan**	Time:	15:52:05
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	116
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Radiated Emissions
Frequency Range: 9kHz to 1GHz

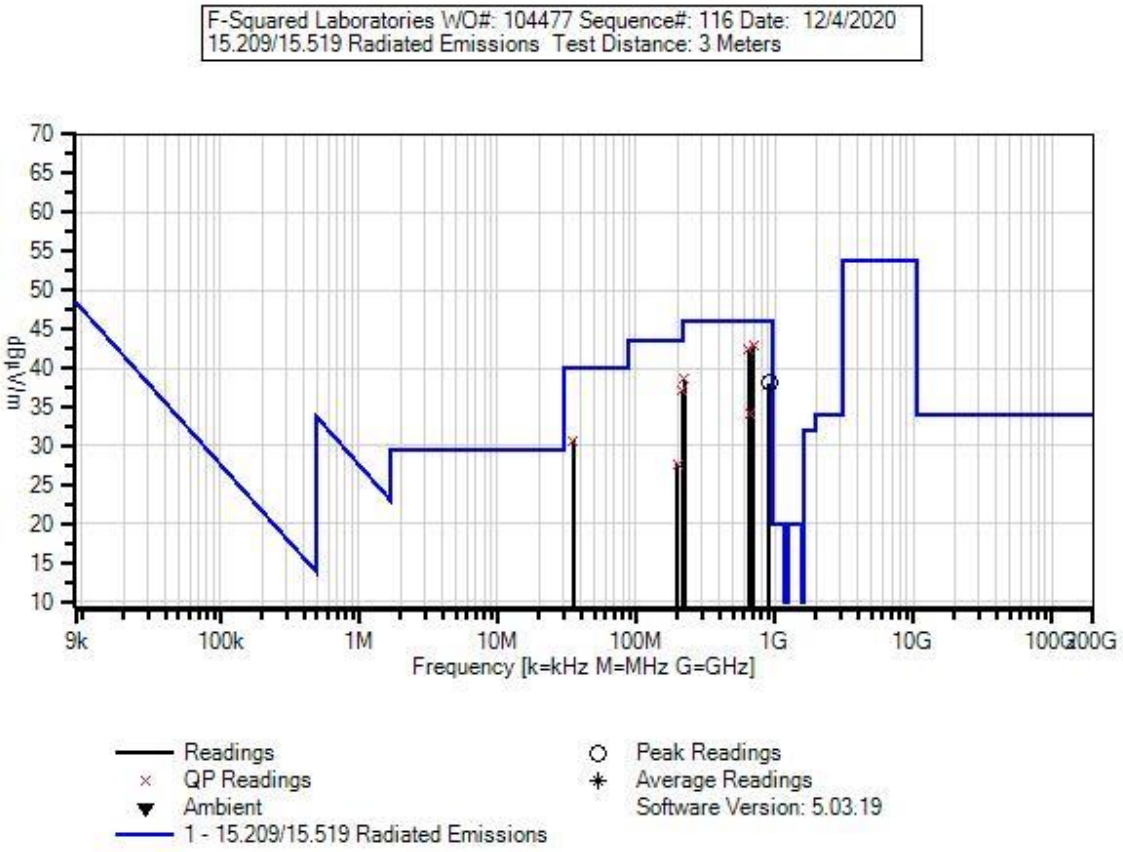
Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Test Methods: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 80cm.
It is connected to a laptop which is put inside the chamber.
Using UWB software to configure the EUT.

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Note

Z -axis is the worst case
SB2



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP07508	Preamp	310N	7/9/2020	7/9/2022
T2	AN00852	Biconilog Antenna	CBL 6111C	4/14/2020	4/14/2022
T3	ANP06049	Attenuator	PE7002-6	5/11/2020	5/11/2022
T4	ANP01187	Cable	CNT-195	7/6/2020	7/6/2022
T5	ANP06691	Cable	PE3062-180	3/25/2020	3/25/2022
T6	ANP06694	Cable	PE3062-480	3/25/2020	3/25/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2 T6	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	709.585M QP	43.3	-32.0 +1.1	+21.2 +2.8	+6.0	+0.6	+0.0	43.0	46.0	-3.0	Vert
^	709.585M	49.0	-32.0 +1.1	+21.2 +2.8	+6.0	+0.6	+0.0	48.7	46.0	+2.7	Vert
3	650.485M QP	43.9	-32.0 +1.0	+20.3 +2.6	+5.9	+0.6	+0.0	42.3	46.0	-3.7	Vert
^	650.485M	50.4	-32.0 +1.0	+20.3 +2.6	+5.9	+0.6	+0.0	48.8	46.0	+2.8	Vert
5	222.538M QP	51.5	-31.9 +0.5	+10.8 +1.4	+5.9	+0.3	+0.0	38.5	46.0	-7.5	Vert
^	222.538M	61.4	-31.9 +0.5	+10.8 +1.4	+5.9	+0.3	+0.0	48.4	46.0	+2.4	Vert
7	920.011M	34.5	-31.2 +1.3	+23.5 +3.3	+5.9	+0.7	+0.0	38.0	46.0	-8.0	Horiz
8	217.555M QP	50.5	-31.9 +0.5	+10.5 +1.3	+5.9	+0.3	+0.0	37.1	46.0	-8.9	Vert
^	217.555M	61.8	-31.9 +0.5	+10.5 +1.3	+5.9	+0.3	+0.0	48.4	46.0	+2.4	Vert
10	35.418M QP	39.9	-32.0 +0.2	+16.3 +0.4	+5.9	+0.0	+0.0	30.7	40.0	-9.3	Vert
^	35.418M	43.5	-32.0 +0.2	+16.3 +0.4	+5.9	+0.0	+0.0	34.3	40.0	-5.7	Vert
12	664.072M QP	35.3	-32.0 +1.0	+20.5 +2.7	+5.9	+0.6	+0.0	34.0	46.0	-12.0	Vert
^	664.072M	38.8	-32.0 +1.0	+20.5 +2.7	+5.9	+0.6	+0.0	37.5	46.0	-8.5	Vert
14	199.021M QP	42.3	-31.9 +0.5	+9.2 +1.3	+5.9	+0.3	+0.0	27.6	43.5	-15.9	Vert
^	199.021M	53.5	-31.9 +0.5	+9.2 +1.3	+5.9	+0.3	+0.0	38.8	43.5	-4.7	Vert

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/3/2020
Test Type:	**Radiated Scan**	Time:	10:33:35
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	40
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Radiated Emissions
Frequency Range: 1GHz to 40GHz

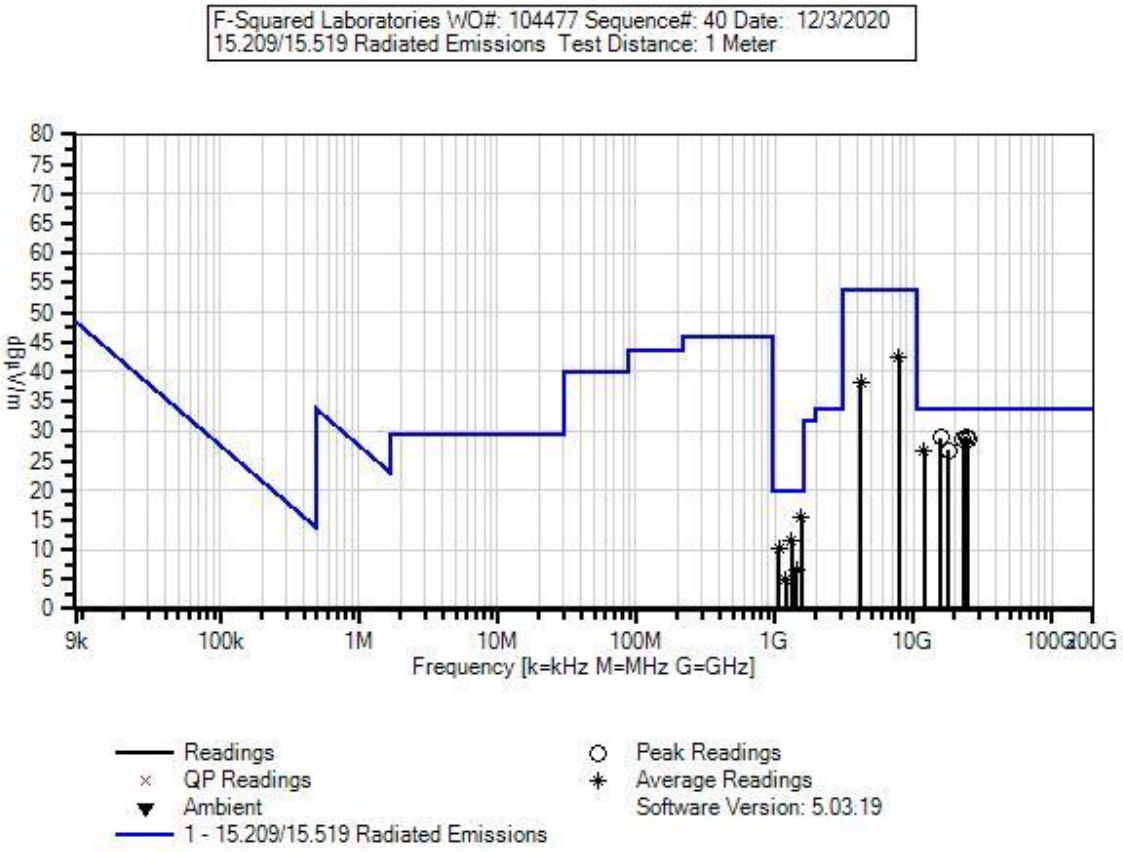
Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Test Methods: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 150cm.
It is connected to a laptop which is put outside the chamber.
Using UWB software to configure the EUT.

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Note:
Z -axis is the worst case

SB2



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/15/2019	1/15/2021
T2	ANP01210	Cable	FSJ1P-50A-4A	11/2/2020	11/2/2022
T3	ANP06902	Cable	32022-29094K-29094K-36TC	8/13/2020	8/13/2022
T4	AN03302	Cable	32026-29094K-29094K-72TC	1/9/2020	1/9/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T5	AN03713	Preamp	01001800-221055-202525	5/22/2019	5/22/2021
T6	AN02810	Preamp	83051A	7/16/2019	7/16/2021
	AN02695	Active Horn Antenna	AMFW-5F-260400-33-8P	8/15/2019	8/15/2021
T7	AN03619	Cable	OKOCQoCQ177.2	11/5/2019	11/5/2021
	ANP00930	Cable	various	1/9/2020	1/9/2022
T8	ANP06898	Cable	32022-29094K-29094K-48TC	3/25/2020	3/25/2022
T9	AN02693	Active Horn Antenna	AMFW-5F-12001800-20-10P	8/15/2019	8/15/2021
T10	AN02694	Horn Antenna	AMFW-5F-18002650-20-10P	8/15/2019	8/15/2021
T11	ANP00928	Cable	various	1/9/2020	1/9/2022
T12	ANP00929	Cable	various	1/9/2020	1/9/2022

Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq	Rdng	T1 T5 T9	T2 T6 T10	T3 T7 T11	T4 T8 T12	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	1560.091M Ave	54.9	+24.8 -58.3 +0.0	+2.0 +0.0 +0.0	+0.7 +0.0 +0.0	+1.0 +0.0 +0.0	-9.5	15.6	19.9	-4.3	Vert
^	1560.091M	66.6	+24.8 -58.3 +0.0	+2.0 +0.0 +0.0	+0.7 +0.0 +0.0	+1.0 +0.0 +0.0	-9.5	27.3	19.9	+7.4	Vert
3	24100.965M	66.5	+0.0 +0.0 +0.0	+0.0 -27.3 -16.1	+0.0 +9.1 +0.0	+0.0 +3.3 +3.1	-9.5	29.1	33.9	-4.8	Horiz
4	15839.936M	72.2	+0.0 +0.0 -14.2	+0.0 -30.3 +0.0	+0.0 +7.2 +0.8	+0.0 +2.7 +0.0	-9.5	28.9	33.9	-5.0	Horiz
5	23139.380M	66.0	+0.0 +0.0 +0.0	+0.0 -26.6 -16.4	+0.0 +8.9 +0.0	+0.0 +3.2 +3.1	-9.5	28.7	33.9	-5.2	Vert
6	24754.304M	66.2	+0.0 +0.0 +0.0	+0.0 -28.1 -15.6	+0.0 +9.2 +0.0	+0.0 +3.4 +3.1	-9.5	28.7	33.9	-5.2	Vert
7	11944.180M Ave	42.1	+38.6 -55.4 +0.0	+6.0 +0.0 +0.0	+1.9 +0.0 +0.0	+3.0 +0.0 +0.0	-9.5	26.7	33.9	-7.2	Vert
^	11944.180M	60.6	+38.6 -55.4 +0.0	+6.0 +0.0 +0.0	+1.9 +0.0 +0.0	+3.0 +0.0 +0.0	-9.5	45.2	33.9	+11.3	Vert
9	17976.575M	63.3	+0.0 +0.0 -10.7	+0.0 -27.8 +0.0	+0.0 +7.7 +0.9	+0.0 +2.8 +0.0	-9.5	26.7	33.9	-7.2	Vert
10	1319.902M Ave	51.7	+24.3 -58.3 +0.0	+1.9 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	11.6	19.9	-8.3	Horiz
^	1319.902M	63.5	+24.3 -58.3 +0.0	+1.9 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	23.4	19.9	+3.5	Horiz
12	1079.970M Ave	50.5	+24.2 -58.3 +0.0	+1.7 +0.0 +0.0	+0.5 +0.0 +0.0	+1.1 +0.0 +0.0	-9.5	10.2	19.9	-9.7	Horiz
^	1079.970M	61.2	+24.2 -58.3 +0.0	+1.7 +0.0 +0.0	+0.5 +0.0 +0.0	+1.1 +0.0 +0.0	-9.5	20.9	19.9	+1.0	Horiz
14	7920.034M Ave	64.0	+36.8 -57.5 +0.0	+4.8 +0.0 +0.0	+1.5 +0.0 +0.0	+2.4 +0.0 +0.0	-9.5	42.5	53.9	-11.4	Vert
^	7920.034M	76.3	+36.8 -57.5 +0.0	+4.8 +0.0 +0.0	+1.5 +0.0 +0.0	+2.4 +0.0 +0.0	-9.5	54.8	53.9	+0.9	Vert

16	1438.969M Ave	46.4	+24.4 -58.3 +0.0	+2.0 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	6.5	19.9	-13.4	Horiz
^	1438.969M	65.7	+24.4 -58.3 +0.0	+2.0 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	25.8	19.9	+5.9	Horiz
18	1201.753M Ave	45.1	+24.2 -58.3 +0.0	+1.8 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	4.8	19.9	-15.1	Horiz
^	1201.753M	68.9	+24.2 -58.3 +0.0	+1.8 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	28.6	19.9	+8.7	Horiz
20	4193.620M Ave	66.7	+31.8 -57.1 +0.0	+3.5 +0.0 +0.0	+1.1 +0.0 +0.0	+1.7 +0.0 +0.0	-9.5	38.2	53.9	-15.7	Vert
^	4193.620M	93.7	+31.8 -57.1 +0.0	+3.5 +0.0 +0.0	+1.1 +0.0 +0.0	+1.7 +0.0 +0.0	-9.5	65.2	53.9	+11.3	Vert

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/4/2020
Test Type:	**Radiated Scan**	Time:	15:57:14
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	117
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Radiated Emissions
Frequency Range: 9kHz to 1GHz

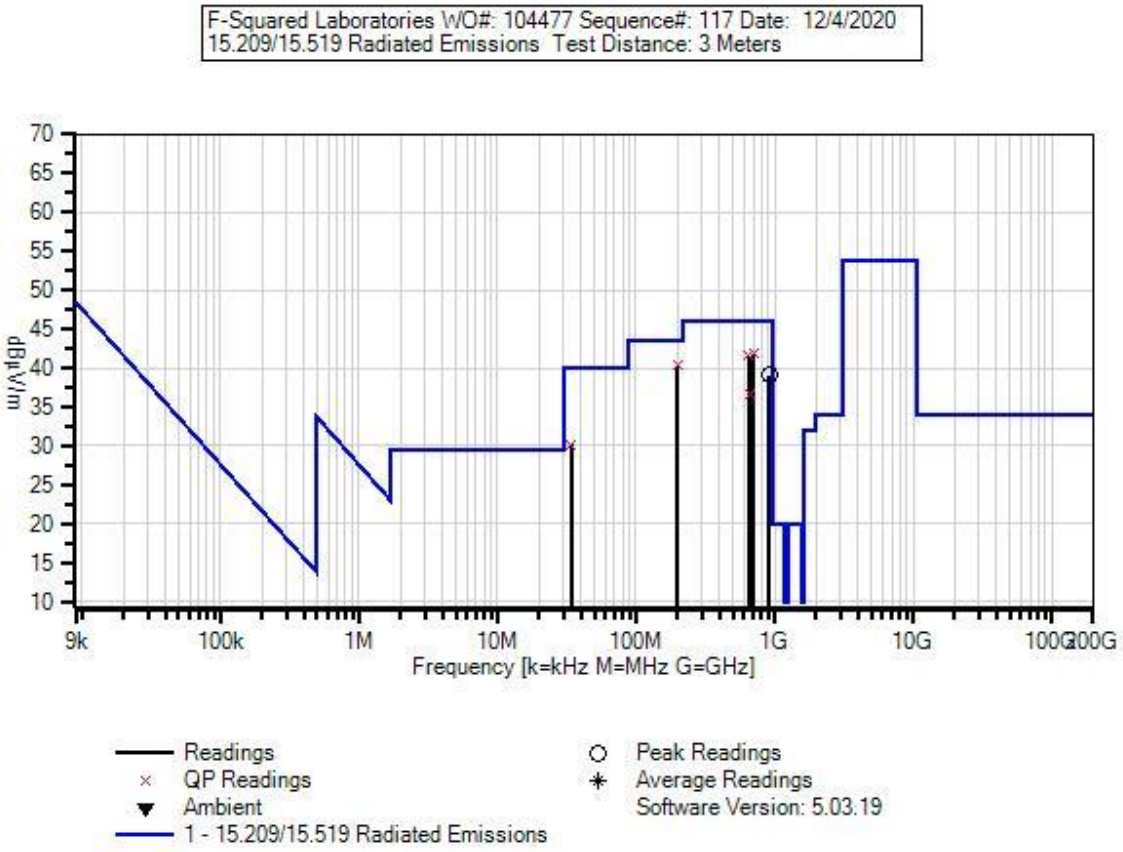
Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Test Methods: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 80cm.
It is connected to a laptop which is put inside the chamber.
Using UWB software to configure the EUT.

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Note

Z -axis is the worst case
SB3



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP07508	Preamp	310N	7/9/2020	7/9/2022
T2	AN00852	Biconilog Antenna	CBL 6111C	4/14/2020	4/14/2022
T3	ANP06049	Attenuator	PE7002-6	5/11/2020	5/11/2022
T4	ANP01187	Cable	CNT-195	7/6/2020	7/6/2022
T5	ANP06691	Cable	PE3062-180	3/25/2020	3/25/2022
T6	ANP06694	Cable	PE3062-480	3/25/2020	3/25/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	200.000M QP	55.0	-31.9 +0.5	+9.2 +1.3	+5.9	+0.3	+0.0	40.3	43.5	-3.2	Vert
^	200.000M	66.4	-31.9 +0.5	+9.2 +1.3	+5.9	+0.3	+0.0	51.7	43.5	+8.2	Vert
3	707.393M QP	42.2	-32.0 +1.1	+21.1 +2.8	+6.0	+0.6	+0.0	41.8	46.0	-4.2	Vert
^	707.393M	47.3	-32.0 +1.1	+21.1 +2.8	+6.0	+0.6	+0.0	46.9	46.0	+0.9	Vert
5	648.343M QP	43.2	-32.0 +1.0	+20.3 +2.6	+5.9	+0.6	+0.0	41.6	46.0	-4.4	Vert
^	648.343M	50.4	-32.0 +1.0	+20.3 +2.6	+5.9	+0.6	+0.0	48.8	46.0	+2.8	Vert
7	917.368M	35.7	-31.2 +1.2	+23.4 +3.3	+5.9	+0.7	+0.0	39.0	46.0	-7.0	Horiz
8	663.830M QP	38.0	-32.0 +1.0	+20.5 +2.7	+5.9	+0.6	+0.0	36.7	46.0	-9.3	Vert
^	663.830M	43.1	-32.0 +1.0	+20.5 +2.7	+5.9	+0.6	+0.0	41.8	46.0	-4.2	Vert
10	34.310M QP	38.8	-32.1 +0.2	+16.9 +0.4	+5.9	+0.0	+0.0	30.1	40.0	-9.9	Vert
^	34.310M	48.4	-32.1 +0.2	+16.9 +0.4	+5.9	+0.0	+0.0	39.7	40.0	-0.3	Vert

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/3/2020
Test Type:	**Radiated Scan**	Time:	11:02:07
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	43
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Radiated Emissions
Frequency Range: 1GHz to 40GHz

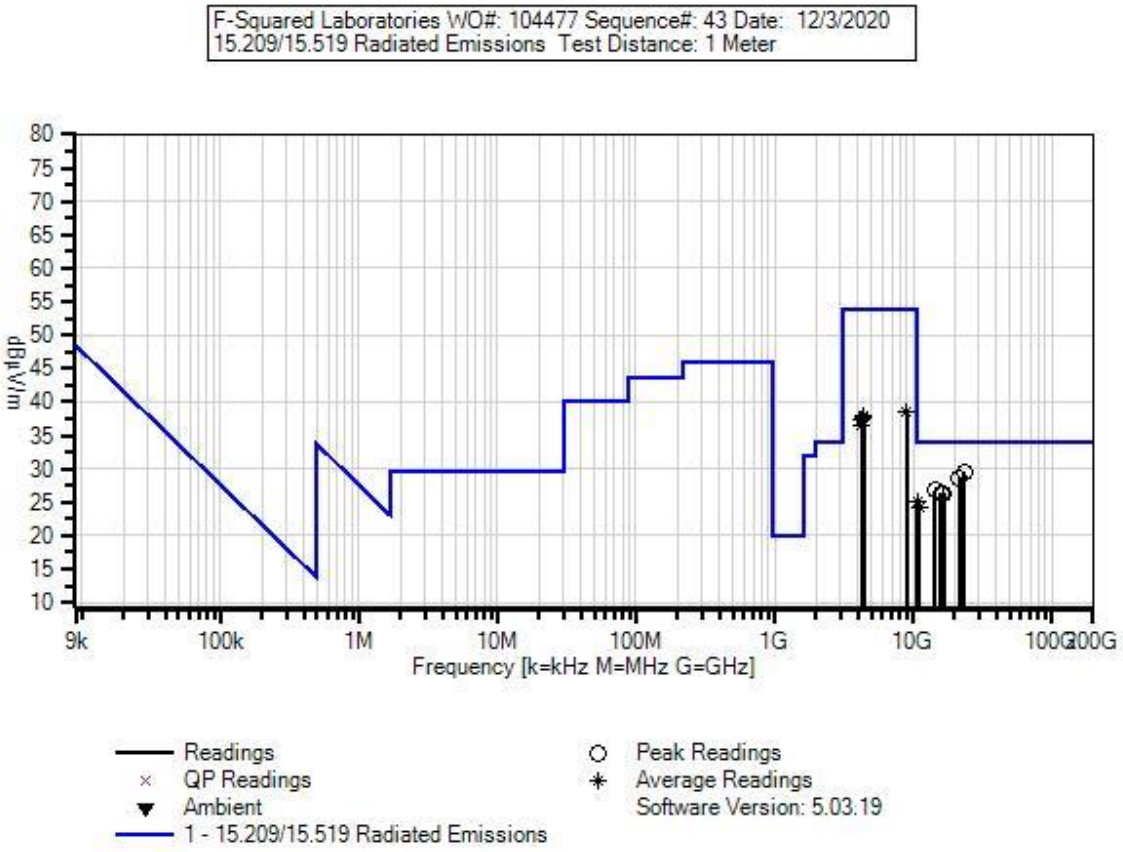
Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Test Methods: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 150cm.
It is connected to a laptop which is put outside the chamber.
Using UWB software to configure the EUT.

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Note:

Z -axis is the worst case
SB3



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/15/2019	1/15/2021
T2	ANP01210	Cable	FSJ1P-50A-4A	11/2/2020	11/2/2022
T3	ANP06902	Cable	32022-29094K-29094K-36TC	8/13/2020	8/13/2022
T4	AN03302	Cable	32026-29094K-29094K-72TC	1/9/2020	1/9/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T5	AN03713	Preamp	01001800-221055-202525	5/22/2019	5/22/2021
T6	AN02810	Preamp	83051A	7/16/2019	7/16/2021
	AN02695	Active Horn Antenna	AMFW-5F-260400-33-8P	8/15/2019	8/15/2021
T7	AN03619	Cable	OKOCQoCQ177.2	11/5/2019	11/5/2021
	ANP00930	Cable	various	1/9/2020	1/9/2022
T8	ANP06898	Cable	32022-29094K-29094K-48TC	3/25/2020	3/25/2022
T9	AN02694	Horn Antenna	AMFW-5F-18002650-20-10P	8/15/2019	8/15/2021
T10	AN02693	Active Horn Antenna	AMFW-5F-12001800-20-10P	8/15/2019	8/15/2021
T11	ANP00928	Cable	various	1/9/2020	1/9/2022
T12	ANP00929	Cable	various	1/9/2020	1/9/2022

Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq	Rdng	T1 T5 T9	T2 T6 T10	T3 T7 T11	T4 T8 T12	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	23263.548 M	66.6	+0.0 +0.0 -16.5	+0.0 -26.6 +0.0	+0.0 +9.0 +0.0	+0.0 +3.3 +3.1	-9.5	29.4	33.9	-4.5	Vert
2	21678.541 M	66.5	+0.0 +0.0 -16.2	+0.0 -27.0 +0.0	+0.0 +8.6 +0.0	+0.0 +3.1 +3.1	-9.5	28.6	33.9	-5.3	Horiz
3	14322.561 M	69.8	+0.0 +0.0 +0.0	+0.0 -29.9 -13.8	+0.0 +6.8 +0.9	+0.0 +2.5 +0.0	-9.5	26.8	33.9	-7.1	Vert
4	16669.129 M	68.0	+0.0 +0.0 +0.0	+0.0 -29.4 -13.9	+0.0 +7.4 +0.8	+0.0 +2.9 +0.0	-9.5	26.3	33.9	-7.6	Horiz
5	15840.328 M	69.6	+0.0 +0.0 +0.0	+0.0 -30.3 -14.2	+0.0 +7.2 +0.8	+0.0 +2.7 +0.0	-9.5	26.3	33.9	-7.6	Horiz
6	10744.799 M Ave	40.8	+39.2 -55.7 +0.0	+5.7 +0.0 +0.0	+1.8 +0.0 +0.0	+2.8 +0.0 +0.0	-9.5	25.1	33.9	-8.8	Horiz
^	10744.799 M	53.8	+39.2 -55.7 +0.0	+5.7 +0.0 +0.0	+1.8 +0.0 +0.0	+2.8 +0.0 +0.0	-9.5	38.1	33.9	+4.2	Horiz
8	10745.228 M Ave	40.8	+39.2 -55.7 +0.0	+5.7 +0.0 +0.0	+1.8 +0.0 +0.0	+2.8 +0.0 +0.0	-9.5	25.1	33.9	-8.8	Horiz
^	10745.228 M	54.8	+39.2 -55.7 +0.0	+5.7 +0.0 +0.0	+1.8 +0.0 +0.0	+2.8 +0.0 +0.0	-9.5	39.1	33.9	+5.2	Horiz
10	11029.679 M Ave	40.3	+38.7 -55.7 +0.0	+5.8 +0.0 +0.0	+1.8 +0.0 +0.0	+2.9 +0.0 +0.0	-9.5	24.3	33.9	-9.6	Horiz
^	11029.679 M	53.3	+38.7 -55.7 +0.0	+5.8 +0.0 +0.0	+1.8 +0.0 +0.0	+2.9 +0.0 +0.0	-9.5	37.3	33.9	+3.4	Horiz
12	1440.567M Ave	48.8	+24.4 -58.3 +0.0	+2.0 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	8.9	19.9	-11.0	Vert
^	1440.567M	77.5	+24.4 -58.3 +0.0	+2.0 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	37.6	19.9	+17.7	Vert
14	1440.679M Ave	48.2	+24.4 -58.3 +0.0	+2.0 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	8.3	19.9	-11.6	Horiz
^	1440.679M	75.4	+24.4 -58.3 +0.0	+2.0 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	35.5	19.9	+15.6	Horiz

16	8975.994M Ave	57.4	+38.4 -56.9 +0.0	+5.1 +0.0 +0.0	+1.6 +0.0 +0.0	+2.5 +0.0 +0.0	-9.5	38.6	53.9	-15.3	Vert
^	8975.994M	69.5	+38.4 -56.9 +0.0	+5.1 +0.0 +0.0	+1.6 +0.0 +0.0	+2.5 +0.0 +0.0	-9.5	50.7	53.9	-3.2	Vert
18	4321.622M Ave	66.2	+32.1 -57.2 +0.0	+3.5 +0.0 +0.0	+1.1 +0.0 +0.0	+1.7 +0.0 +0.0	-9.5	37.9	53.9	-16.0	Vert
^	4321.622M	90.3	+32.1 -57.2 +0.0	+3.5 +0.0 +0.0	+1.1 +0.0 +0.0	+1.7 +0.0 +0.0	-9.5	62.0	53.9	+8.1	Vert
20	4383.844M Ave	65.9	+32.2 -57.3 +0.0	+3.5 +0.0 +0.0	+1.1 +0.0 +0.0	+1.7 +0.0 +0.0	-9.5	37.6	53.9	-16.3	Vert
^	4383.844M	88.1	+32.2 -57.3 +0.0	+3.5 +0.0 +0.0	+1.1 +0.0 +0.0	+1.7 +0.0 +0.0	-9.5	59.8	53.9	+5.9	Vert
22	4251.178M Ave	65.7	+31.9 -57.2 +0.0	+3.5 +0.0 +0.0	+1.1 +0.0 +0.0	+1.7 +0.0 +0.0	-9.5	37.2	53.9	-16.7	Vert
^	4251.178M	88.1	+31.9 -57.2 +0.0	+3.5 +0.0 +0.0	+1.1 +0.0 +0.0	+1.7 +0.0 +0.0	-9.5	59.6	53.9	+5.7	Vert
24	4279.956M Ave	64.8	+32.0 -57.2 +0.0	+3.5 +0.0 +0.0	+1.1 +0.0 +0.0	+1.7 +0.0 +0.0	-9.5	36.4	53.9	-17.5	Vert
^	4279.956M	88.7	+32.0 -57.2 +0.0	+3.5 +0.0 +0.0	+1.1 +0.0 +0.0	+1.7 +0.0 +0.0	-9.5	60.3	53.9	+6.4	Vert

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/4/2020
Test Type:	**Radiated Scan**	Time:	18:27:18
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	118
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Radiated Emissions
Frequency Range: 9kHz to 1GHz

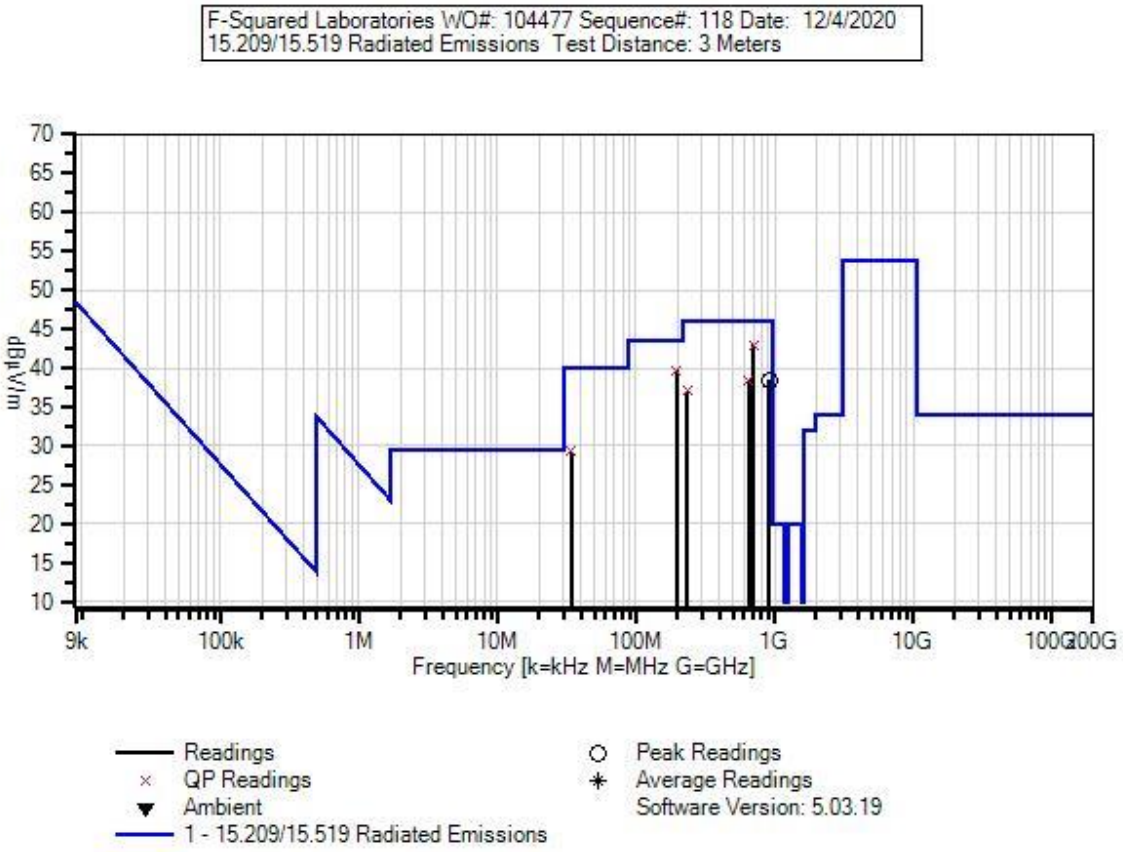
Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Test Methods: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 80cm.
It is connected to a laptop which is put inside the chamber.
Using UWB software to configure the EUT.

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Note:

Z -axis is the worst case
SB7



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP07508	Preamp	310N	7/9/2020	7/9/2022
T2	AN00852	Biconilog Antenna	CBL 6111C	4/14/2020	4/14/2022
T3	ANP06049	Attenuator	PE7002-6	5/11/2020	5/11/2022
T4	ANP01187	Cable	CNT-195	7/6/2020	7/6/2022
T5	ANP06691	Cable	PE3062-180	3/25/2020	3/25/2022
T6	ANP06694	Cable	PE3062-480	3/25/2020	3/25/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	707.246M QP	43.3	-32.0 +1.1	+21.1 +2.8	+6.0	+0.6	+0.0	42.9	46.0	-3.1	Vert
^	707.246M	46.9	-32.0 +1.1	+21.1 +2.8	+6.0	+0.6	+0.0	46.5	46.0	+0.5	Vert
3	196.701M QP	54.5	-31.9 +0.5	+9.2 +1.3	+5.9	+0.2	+0.0	39.7	43.5	-3.8	Vert
^	196.632M	66.5	-31.9 +0.5	+9.2 +1.3	+5.9	+0.2	+0.0	51.7	43.5	+8.2	Vert
5	916.812M	35.1	-31.2 +1.2	+23.4 +3.3	+5.9	+0.7	+0.0	38.4	46.0	-7.6	Horiz
6	648.122M QP	40.0	-32.0 +1.0	+20.3 +2.6	+5.9	+0.6	+0.0	38.4	46.0	-7.6	Vert
^	648.122M	49.6	-32.0 +1.0	+20.3 +2.6	+5.9	+0.6	+0.0	48.0	46.0	+2.0	Vert
8	235.809M QP	49.2	-31.9 +0.5	+11.7 +1.4	+5.9	+0.3	+0.0	37.1	46.0	-8.9	Vert
^	235.809M	59.0	-31.9 +0.5	+11.7 +1.4	+5.9	+0.3	+0.0	46.9	46.0	+0.9	Vert
10	34.217M QP	38.0	-32.1 +0.2	+16.9 +0.4	+5.9	+0.0	+0.0	29.3	40.0	-10.7	Vert
^	34.217M	45.9	-32.1 +0.2	+16.9 +0.4	+5.9	+0.0	+0.0	37.2	40.0	-2.8	Vert

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/3/2020
Test Type:	**Radiated Scan**	Time:	11:35:04
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	46
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Radiated Emissions
Frequency Range: 1GHz to 40GHz

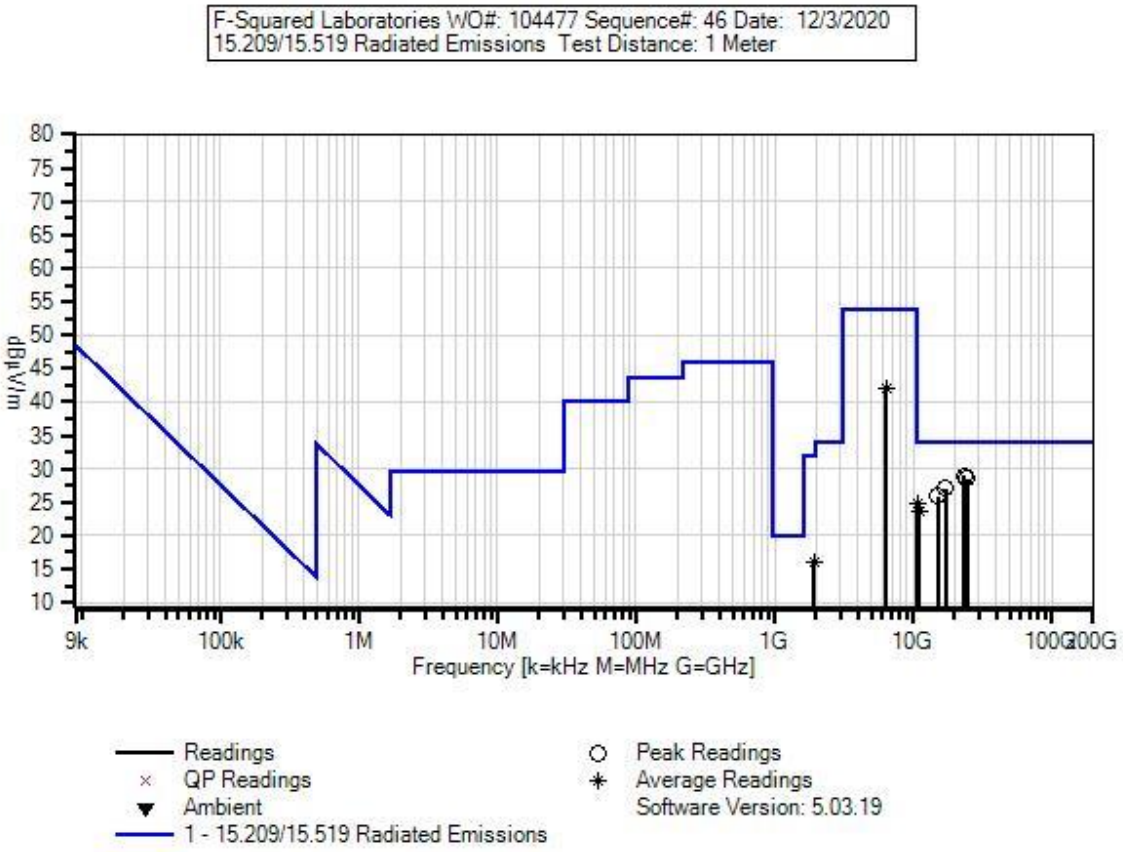
Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Test Methods: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 150cm.
It is connected to a laptop which is put outside the chamber.
Using UWB software to configure the EUT.

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Note:

Z -axis is the worst case
SB7



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/15/2019	1/15/2021
T2	ANP01210	Cable	FSJ1P-50A-4A	11/2/2020	11/2/2022
T3	ANP06902	Cable	32022-29094K-29094K-36TC	8/13/2020	8/13/2022
T4	AN03302	Cable	32026-29094K-29094K-72TC	1/9/2020	1/9/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T5	AN03713	Preamp	01001800-221055-202525	5/22/2019	5/22/2021
T6	AN02810	Preamp	83051A	7/16/2019	7/16/2021
	AN02695	Active Horn Antenna	AMFW-5F-260400-33-8P	8/15/2019	8/15/2021
T7	AN03619	Cable	OKOCQoCQ177.2	11/5/2019	11/5/2021
	ANP00930	Cable	various	1/9/2020	1/9/2022
T8	ANP06898	Cable	32022-29094K-29094K-48TC	3/25/2020	3/25/2022
T9	AN02693	Active Horn Antenna	AMFW-5F-12001800-20-10P	8/15/2019	8/15/2021
T10	AN02694	Horn Antenna	AMFW-5F-18002650-20-10P	8/15/2019	8/15/2021
T11	ANP00928	Cable	various	1/9/2020	1/9/2022
T12	ANP00929	Cable	various	1/9/2020	1/9/2022

Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq	Rdng	T1 T5 T9	T2 T6 T10	T3 T7 T11	T4 T8 T12	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	23199.247 M	66.1	+0.0 +0.0 +0.0	+0.0 -26.6 -16.4	+0.0 +9.0 +0.0	+0.0 +3.3 +3.1	-9.5	29.0	33.9	-4.9	Vert
2	24687.138 M	65.9	+0.0 +0.0 +0.0	+0.0 -28.0 -15.6	+0.0 +9.2 +0.0	+0.0 +3.4 +3.1	-9.5	28.5	33.9	-5.4	Horiz
3	17312.875 M	65.9	+0.0 +0.0 -11.9	+0.0 -28.6 +0.0	+0.0 +7.5 +0.8	+0.0 +2.9 +0.0	-9.5	27.1	33.9	-6.8	Vert
4	15090.873 M	68.6	+0.0 +0.0 -13.4	+0.0 -30.3 +0.0	+0.0 +7.0 +0.9	+0.0 +2.6 +0.0	-9.5	25.9	33.9	-8.0	Horiz
5	10722.198 M Ave	40.5	+39.2 -55.8 +0.0	+5.7 +0.0 +0.0	+1.8 +0.0 +0.0	+2.8 +0.0 +0.0	-9.5	24.7	33.9	-9.2	Horiz
^	10722.198 M	53.5	+39.2 -55.8 +0.0	+5.7 +0.0 +0.0	+1.8 +0.0 +0.0	+2.8 +0.0 +0.0	-9.5	37.7	33.9	+3.8	Horiz
7	11179.160 M Ave	39.7	+38.4 -55.7 +0.0	+5.9 +0.0 +0.0	+1.8 +0.0 +0.0	+2.9 +0.0 +0.0	-9.5	23.5	33.9	-10.4	Horiz
^	11179.160 M	52.9	+38.4 -55.7 +0.0	+5.9 +0.0 +0.0	+1.8 +0.0 +0.0	+2.9 +0.0 +0.0	-9.5	36.7	33.9	+2.8	Horiz
9	6433.630M Ave	65.8	+34.5 -56.6 +0.0	+4.2 +0.0 +0.0	+1.4 +0.0 +0.0	+2.1 +0.0 +0.0	-9.5	41.9	53.9	-12.0	Vert
^	6433.630M	89.9	+34.5 -56.6 +0.0	+4.2 +0.0 +0.0	+1.4 +0.0 +0.0	+2.1 +0.0 +0.0	-9.5	66.0	53.9	+12.1	Vert
11	1441.280M Ave	45.9	+24.4 -58.3 +0.0	+2.0 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	6.0	19.9	-13.9	Horiz
^	1441.280M	68.8	+24.4 -58.3 +0.0	+2.0 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	28.9	19.9	+9.0	Horiz

13	1920.846M Ave	53.1	+26.6 -58.3 +0.0	+2.3 +0.0 +0.0	+0.7 +0.0 +0.0	+1.1 +0.0 +0.0	-9.5	16.0	31.9	-15.9	Vert
^	1920.846M	76.3	+26.6 -58.3 +0.0	+2.3 +0.0 +0.0	+0.7 +0.0 +0.0	+1.1 +0.0 +0.0	-9.5	39.2	31.9	+7.3	Vert
15	1679.953M Ave	46.3	+25.4 -58.3 +0.0	+2.1 +0.0 +0.0	+0.7 +0.0 +0.0	+1.0 +0.0 +0.0	-9.5	7.7	31.9	-24.2	Vert
^	1679.953M	77.0	+25.4 -58.3 +0.0	+2.1 +0.0 +0.0	+0.7 +0.0 +0.0	+1.0 +0.0 +0.0	-9.5	38.4	31.9	+6.5	Vert

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/4/2020
Test Type:	**Radiated Scan**	Time:	18:30:36
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	119
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Radiated Emissions
Frequency Range: 9kHz to 1GHz

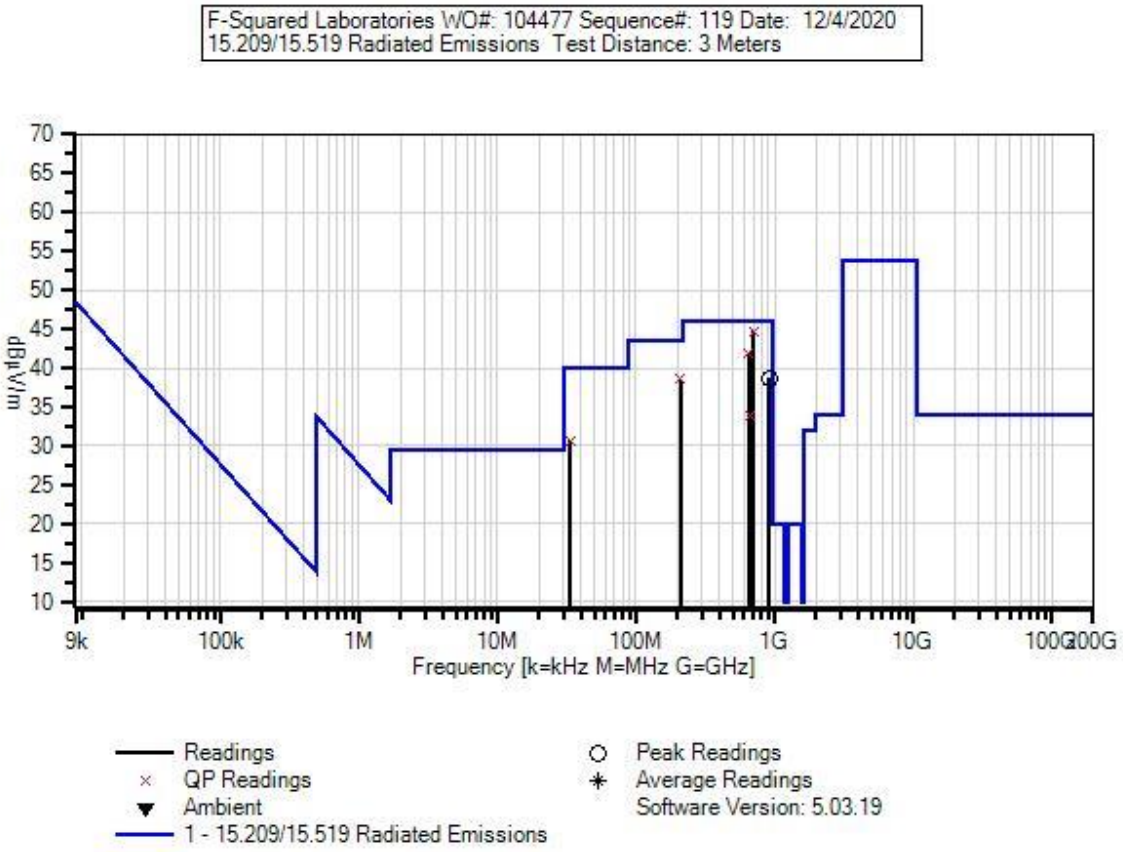
Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Test Methods: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 80cm.
It is connected to a laptop which is put inside the chamber.
Using UWB software to configure the EUT.

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Note:

Z -axis is the worst case
SB8



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP07508	Preamp	310N	7/9/2020	7/9/2022
T2	AN00852	Biconilog Antenna	CBL 6111C	4/14/2020	4/14/2022
T3	ANP06049	Attenuator	PE7002-6	5/11/2020	5/11/2022
T4	ANP01187	Cable	CNT-195	7/6/2020	7/6/2022
T5	ANP06691	Cable	PE3062-180	3/25/2020	3/25/2022
T6	ANP06694	Cable	PE3062-480	3/25/2020	3/25/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	709.494M QP	45.0	-32.0 +1.1	+21.2 +2.8	+6.0	+0.6	+0.0	44.7	46.0	-1.3	Vert
^	709.494M	51.8	-32.0 +1.1	+21.2 +2.8	+6.0	+0.6	+0.0	51.5	46.0	+5.5	Vert
3	650.006M QP	43.6	-32.0 +1.0	+20.3 +2.6	+5.9	+0.6	+0.0	42.0	46.0	-4.0	Vert
^	650.006M	50.2	-32.0 +1.0	+20.3 +2.6	+5.9	+0.6	+0.0	48.6	46.0	+2.6	Vert
5	208.012M QP	52.7	-31.9 +0.5	+9.8 +1.3	+5.9	+0.3	+0.0	38.6	43.5	-4.9	Vert
^	208.012M	64.6	-31.9 +0.5	+9.8 +1.3	+5.9	+0.3	+0.0	50.5	43.5	+7.0	Vert
7	919.663M	35.3	-31.2 +1.3	+23.4 +3.3	+5.9	+0.7	+0.0	38.7	46.0	-7.3	Horiz
8	33.331M QP	38.9	-32.1 +0.2	+17.3 +0.4	+5.9	+0.0	+0.0	30.6	40.0	-9.4	Vert
^	33.331M	42.0	-32.1 +0.2	+17.3 +0.4	+5.9	+0.0	+0.0	33.7	40.0	-6.3	Vert
10	665.969M QP	35.1	-32.0 +1.0	+20.5 +2.7	+5.9	+0.6	+0.0	33.8	46.0	-12.2	Vert
^	665.969M	40.3	-32.0 +1.0	+20.5 +2.7	+5.9	+0.6	+0.0	39.0	46.0	-7.0	Vert

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/3/2020
Test Type:	**Radiated Scan**	Time:	11:55:44
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	49
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Radiated Emissions
Frequency Range: 1GHz to 40GHz

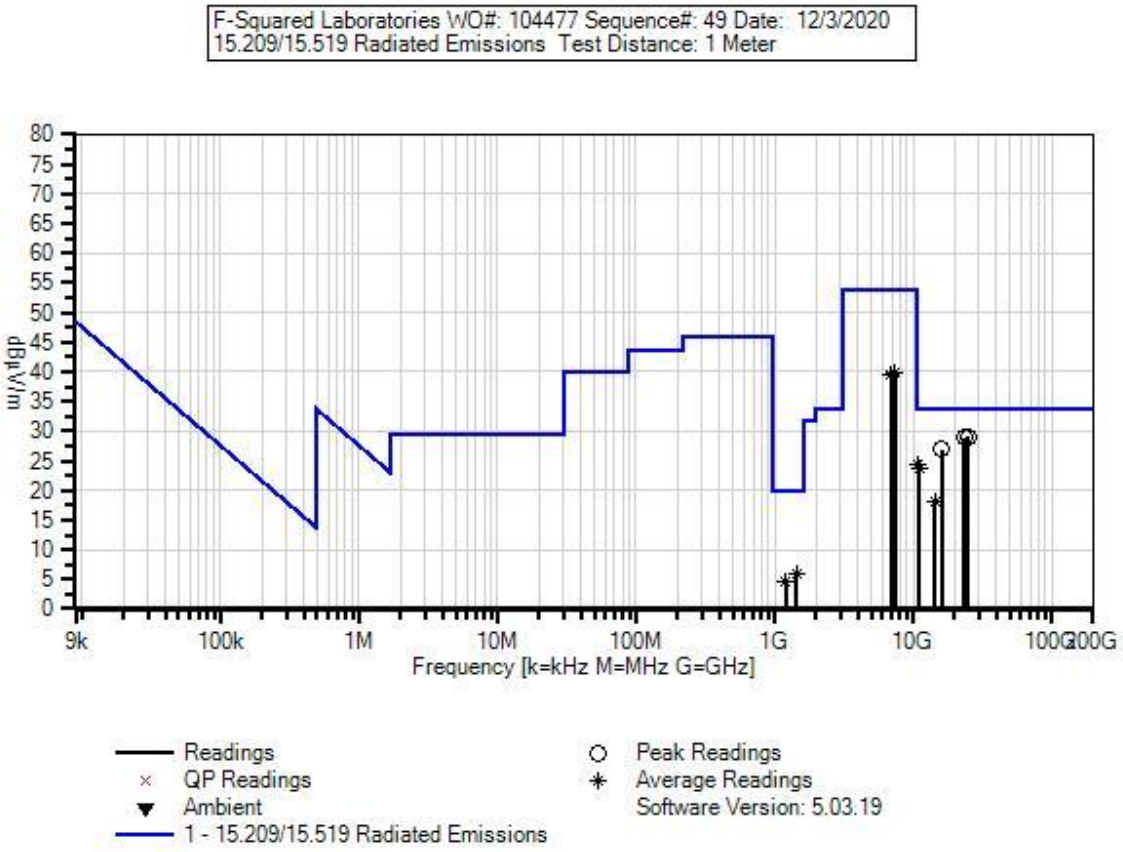
Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Test Methods: ANSI C 63.10 (2013)

The EUT is set up as intended. It is set up on the table height 150cm.
It is connected to a laptop which is put outside the chamber.
Using UWB software to configure the EUT.

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Note:

Z -axis is the worst case
SB8



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/15/2019	1/15/2021
T2	ANP01210	Cable	FSJ1P-50A-4A	11/2/2020	11/2/2022
T3	ANP06902	Cable	32022-29094K-29094K-36TC	8/13/2020	8/13/2022
T4	AN03302	Cable	32026-29094K-29094K-72TC	1/9/2020	1/9/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T5	AN03713	Preamp	01001800-221055-202525	5/22/2019	5/22/2021
T6	AN02810	Preamp	83051A	7/16/2019	7/16/2021
	AN02695	Active Horn Antenna	AMFW-5F-260400-33-8P	8/15/2019	8/15/2021
T7	AN03619	Cable	OKOCQoCQ177.2	11/5/2019	11/5/2021
	ANP00930	Cable	various	1/9/2020	1/9/2022
T8	ANP06898	Cable	32022-29094K-29094K-48TC	3/25/2020	3/25/2022
T9	AN02693	Active Horn Antenna	AMFW-5F-12001800-20-10P	8/15/2019	8/15/2021
T10	AN02694	Horn Antenna	AMFW-5F-18002650-20-10P	8/15/2019	8/15/2021
T11	ANP00928	Cable	various	1/9/2020	1/9/2022
T12	ANP00929	Cable	various	1/9/2020	1/9/2022

Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq	Rdng	T1 T5 T9	T2 T6 T10	T3 T7 T11	T4 T8 T12	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	24750.640M	66.5	+0.0 +0.0 +0.0	+0.0 -28.1 -15.6	+0.0 +9.2 +0.0	+0.0 +3.4 +3.1	-9.5	29.0	33.9	-4.9	Vert
2	23184.835M	66.1	+0.0 +0.0 +0.0	+0.0 -26.6 -16.4	+0.0 +9.0 +0.0	+0.0 +3.2 +3.1	-9.5	28.9	33.9	-5.0	Horiz
3	15981.243M	70.3	+0.0 +0.0 -14.4	+0.0 -30.2 +0.0	+0.0 +7.2 +0.8	+0.0 +2.7 +0.0	-9.5	26.9	33.9	-7.0	Vert
4	10966.239M Ave	40.2	+38.9 -55.7 +0.0	+5.8 +0.0 +0.0	+1.8 +0.0 +0.0	+2.9 +0.0 +0.0	-9.5	24.4	33.9	-9.5	Horiz
^	10966.239M	53.3	+38.9 -55.7 +0.0	+5.8 +0.0 +0.0	+1.8 +0.0 +0.0	+2.9 +0.0 +0.0	-9.5	37.5	33.9	+3.6	Horiz
6	11166.170M Ave	39.8	+38.5 -55.7 +0.0	+5.9 +0.0 +0.0	+1.8 +0.0 +0.0	+2.9 +0.0 +0.0	-9.5	23.7	33.9	-10.2	Horiz
^	11166.170M	53.4	+38.5 -55.7 +0.0	+5.9 +0.0 +0.0	+1.8 +0.0 +0.0	+2.9 +0.0 +0.0	-9.5	37.3	33.9	+3.4	Horiz
8	1438.211M Ave	45.9	+24.4 -58.3 +0.0	+2.0 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	6.0	19.9	-13.9	Horiz
^	1438.211M	66.4	+24.4 -58.3 +0.0	+2.0 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	26.5	19.9	+6.6	Horiz
10	7361.584M Ave	61.5	+36.6 -57.2 +0.0	+4.6 +0.0 +0.0	+1.5 +0.0 +0.0	+2.3 +0.0 +0.0	-9.5	39.8	53.9	-14.1	Vert
^	7361.584M	88.3	+36.6 -57.2 +0.0	+4.6 +0.0 +0.0	+1.5 +0.0 +0.0	+2.3 +0.0 +0.0	-9.5	66.6	53.9	+12.7	Vert

12	6894.432M Ave	63.1	+35.1 -57.4 +0.0	+4.4 +0.0 +0.0	+1.5 +0.0 +0.0	+2.2 +0.0 +0.0	-9.5	39.4	53.9	-14.5	Vert
^	6894.432M	90.0	+35.1 -57.4 +0.0	+4.4 +0.0 +0.0	+1.5 +0.0 +0.0	+2.2 +0.0 +0.0	-9.5	66.3	53.9	+12.4	Vert
14	1202.260M Ave	44.9	+24.2 -58.3 +0.0	+1.8 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	4.6	19.9	-15.3	Horiz
^	1202.260M	65.2	+24.2 -58.3 +0.0	+1.8 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	24.9	19.9	+5.0	Horiz
16	14256.013 M Ave	61.4	+0.0 +0.0 -13.8	+0.0 -29.9 +0.0	+0.0 +6.8 +0.8	+0.0 +2.4 +0.0	-9.5	18.2	33.9	-15.7	Horiz
^	14256.013 M	73.2	+0.0 +0.0 -13.8	+0.0 -29.9 +0.0	+0.0 +6.8 +0.8	+0.0 +2.4 +0.0	-9.5	30.0	33.9	-3.9	Horiz

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/4/2020
Test Type:	**Radiated Scan**	Time:	18:33:28
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	120
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Radiated Emissions
Frequency Range: 9kHz to 1GHz

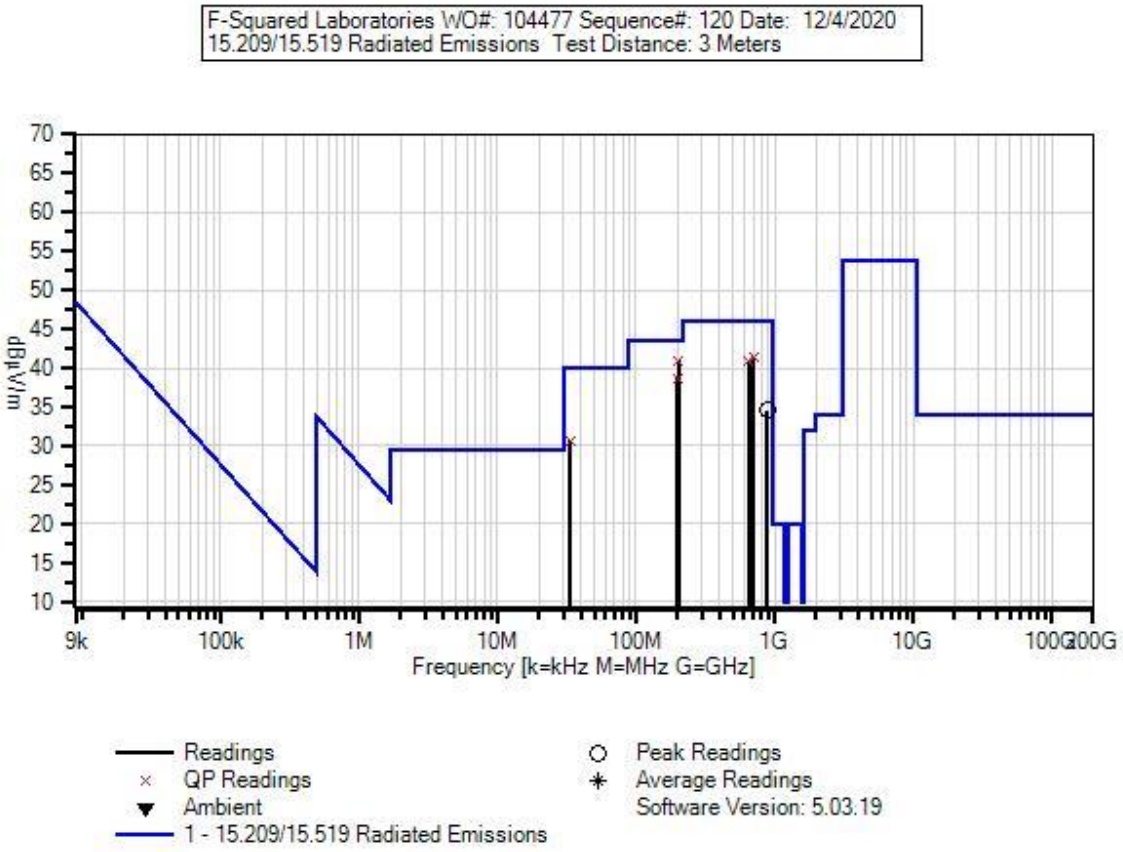
Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Test Methods: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 80cm.
It is connected to a laptop which is put inside the chamber.
Using UWB software to configure the EUT.

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Note

Z -axis is the worst case
SB9



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP07508	Preamp	310N	7/9/2020	7/9/2022
T2	AN00852	Biconilog Antenna	CBL 6111C	4/14/2020	4/14/2022
T3	ANP06049	Attenuator	PE7002-6	5/11/2020	5/11/2022
T4	ANP01187	Cable	CNT-195	7/6/2020	7/6/2022
T5	ANP06691	Cable	PE3062-180	3/25/2020	3/25/2022
T6	ANP06694	Cable	PE3062-480	3/25/2020	3/25/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	201.663M QP	55.5	-31.9 +0.5	+9.3 +1.3	+5.9	+0.3	+0.0	40.9	43.5	-2.6	Vert
^	201.663M	65.9	-31.9 +0.5	+9.3 +1.3	+5.9	+0.3	+0.0	51.3	43.5	+7.8	Vert
3	707.225M QP	41.9	-32.0 +1.1	+21.1 +2.8	+6.0	+0.6	+0.0	41.5	46.0	-4.5	Vert
^	707.225M	49.5	-32.0 +1.1	+21.1 +2.8	+6.0	+0.6	+0.0	49.1	46.0	+3.1	Vert
5	198.564M QP	53.4	-31.9 +0.5	+9.2 +1.3	+5.9	+0.3	+0.0	38.7	43.5	-4.8	Vert
^	198.564M	62.4	-31.9 +0.5	+9.2 +1.3	+5.9	+0.3	+0.0	47.7	43.5	+4.2	Vert
7	648.332M QP	42.4	-32.0 +1.0	+20.3 +2.6	+5.9	+0.6	+0.0	40.8	46.0	-5.2	Vert
^	648.332M	49.8	-32.0 +1.0	+20.3 +2.6	+5.9	+0.6	+0.0	48.2	46.0	+2.2	Vert
9	33.346M QP	38.9	-32.1 +0.2	+17.3 +0.4	+5.9	+0.0	+0.0	30.6	40.0	-9.4	Vert
^	33.346M	51.8	-32.1 +0.2	+17.3 +0.4	+5.9	+0.0	+0.0	43.5	40.0	+3.5	Vert
11	884.264M	32.0	-31.5 +1.2	+23.1 +3.2	+5.9	+0.7	+0.0	34.6	46.0	-11.4	Horiz

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/3/2020
Test Type:	**Radiated Scan**	Time:	13:24:50
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	52
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Radiated Emissions
Frequency Range: 1GHz to 40GHz

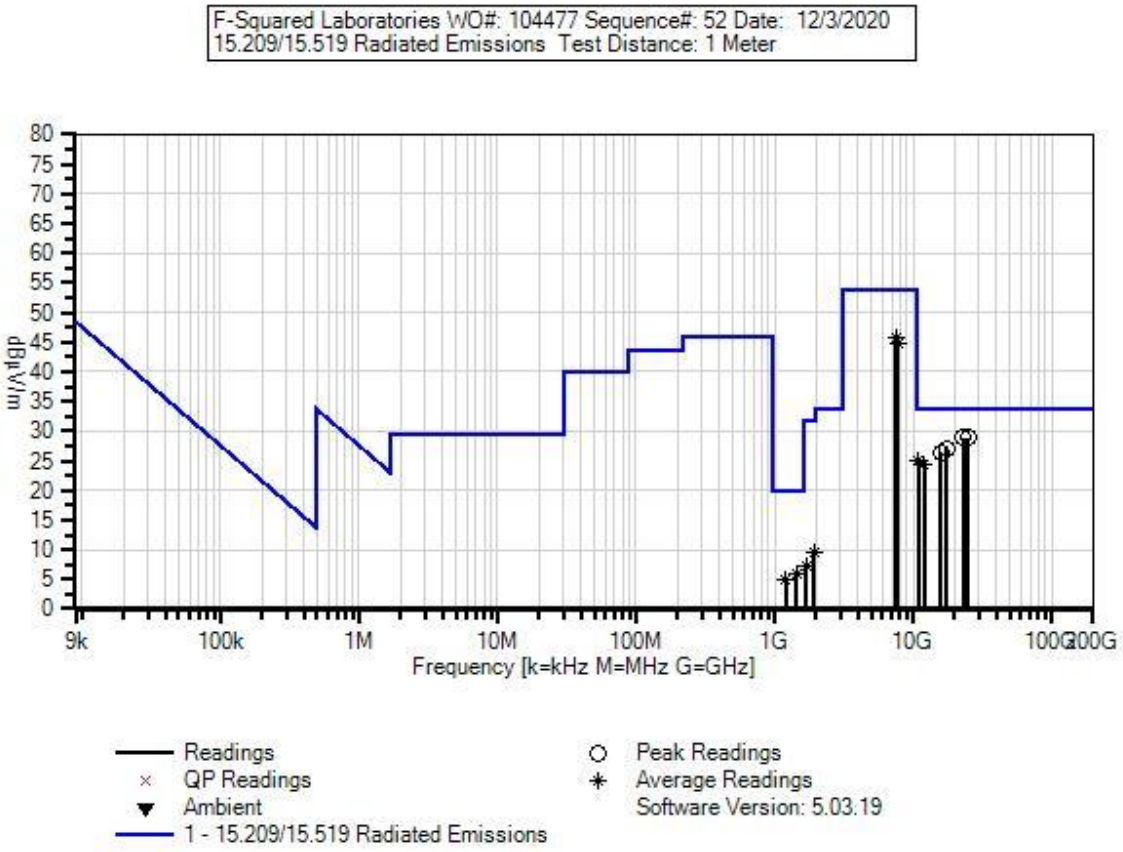
Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Test Method: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 150cm.
It is connected to a laptop which is put outside the chamber.
Using UWB software to configure the EUT.

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Note:

Z -axis is the worst case
SB9



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

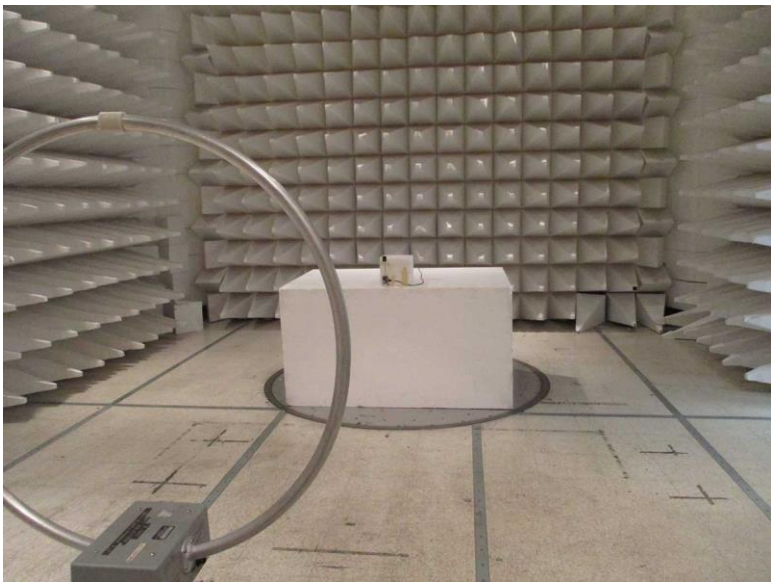
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/15/2019	1/15/2021
T2	ANP01210	Cable	FSJ1P-50A-4A	11/2/2020	11/2/2022
T3	ANP06902	Cable	32022-29094K-29094K-36TC	8/13/2020	8/13/2022
T4	AN03302	Cable	32026-29094K-29094K-72TC	1/9/2020	1/9/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T5	AN03713	Preamp	01001800-221055-202525	5/22/2019	5/22/2021
T6	AN02810	Preamp	83051A	7/16/2019	7/16/2021
	AN02695	Active Horn Antenna	AMFW-5F-260400-33-8P	8/15/2019	8/15/2021
T7	AN03619	Cable	OKOCQoCQ177.2	11/5/2019	11/5/2021
	ANP00930	Cable	various	1/9/2020	1/9/2022
T8	ANP06898	Cable	32022-29094K-29094K-48TC	3/25/2020	3/25/2022
T9	AN02693	Active Horn Antenna	AMFW-5F-12001800-20-10P	8/15/2019	8/15/2021
T10	AN02694	Horn Antenna	AMFW-5F-18002650-20-10P	8/15/2019	8/15/2021
T11	ANP00928	Cable	various	1/9/2020	1/9/2022
T12	ANP00929	Cable	various	1/9/2020	1/9/2022

M***easurement Data:*** Reading listed by margin. Test Distance: 1 Meter

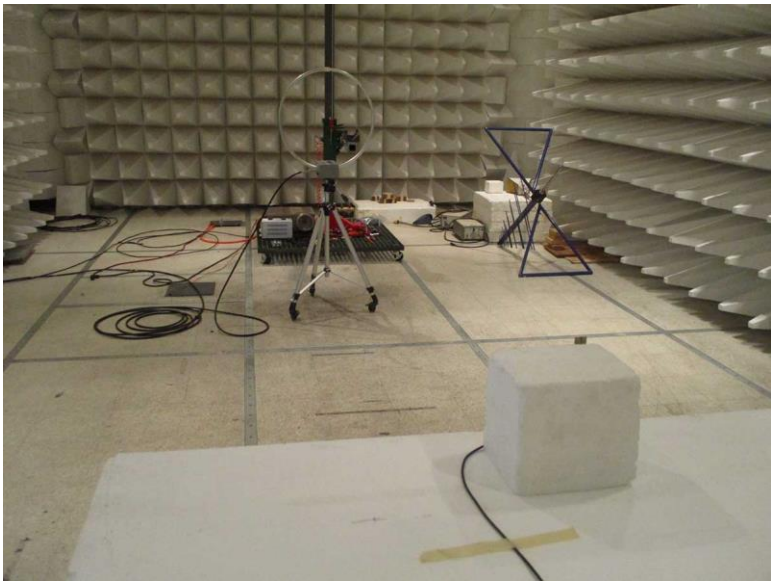
#	Freq MHz	Rdng dBµV	T1 T5 T9 dB	T2 T6 T10 dB	T3 T7 T11 dB	T4 T8 T12 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	23171.531 M	66.2	+0.0 +0.0 +0.0	+0.0 -26.6 -16.4	+0.0 +8.9 +0.0	+0.0 +3.2 +3.1	-9.5	28.9	33.9	-5.0	Vert
2	24885.582 M	66.6	+0.0 +0.0 +0.0	+0.0 -28.4 -15.6	+0.0 +9.3 +0.0	+0.0 +3.4 +3.1	-9.5	28.9	33.9	-5.0	Horiz
3	17457.111 M	65.1	+0.0 +0.0 -11.5	+0.0 -28.4 +0.0	+0.0 +7.6 +0.8	+0.0 +2.9 +0.0	-9.5	27.0	33.9	-6.9	Horiz
4	15834.840 M	69.7	+0.0 +0.0 -14.2	+0.0 -30.3 +0.0	+0.0 +7.2 +0.8	+0.0 +2.7 +0.0	-9.5	26.4	33.9	-7.5	Vert
5	7518.441M Ave	66.9	+37.1 -57.3 +0.0	+4.7 +0.0 +0.0	+1.5 +0.0 +0.0	+2.3 +0.0 +0.0	-9.5	45.7	53.9	-8.2	Vert
^	7518.441M	90.8	+37.1 -57.3 +0.0	+4.7 +0.0 +0.0	+1.5 +0.0 +0.0	+2.3 +0.0 +0.0	-9.5	69.6	53.9	+15.7	Vert
7	10916.043 M Ave	40.8	+38.9 -55.7 +0.0	+5.8 +0.0 +0.0	+1.8 +0.0 +0.0	+2.8 +0.0 +0.0	-9.5	24.9	33.9	-9.0	Horiz
^	10916.043 M	53.6	+38.9 -55.7 +0.0	+5.8 +0.0 +0.0	+1.8 +0.0 +0.0	+2.8 +0.0 +0.0	-9.5	37.7	33.9	+3.8	Horiz
9	7720.058M Ave	66.3	+36.9 -57.4 +0.0	+4.7 +0.0 +0.0	+1.5 +0.0 +0.0	+2.4 +0.0 +0.0	-9.5	44.9	53.9	-9.0	Vert
^	7720.058M	90.1	+36.9 -57.4 +0.0	+4.7 +0.0 +0.0	+1.5 +0.0 +0.0	+2.4 +0.0 +0.0	-9.5	68.7	53.9	+14.8	Vert
11	11983.212 M Ave	39.5	+38.7 -55.3 +0.0	+6.0 +0.0 +0.0	+1.9 +0.0 +0.0	+3.0 +0.0 +0.0	-9.5	24.3	33.9	-9.6	Horiz
^	11983.212 M	52.5	+38.7 -55.3 +0.0	+6.0 +0.0 +0.0	+1.9 +0.0 +0.0	+3.0 +0.0 +0.0	-9.5	37.3	33.9	+3.4	Horiz
13	1442.044M Ave	45.8	+24.4 -58.3 +0.0	+2.0 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	5.9	19.9	-14.0	Horiz
^	1442.044M	63.4	+24.4 -58.3 +0.0	+2.0 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	23.5	19.9	+3.6	Horiz

15	1204.230M Ave	45.2	+24.2 -58.3 +0.0	+1.8 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	4.9	19.9	-15.0	Horiz
^	1204.230M	64.8	+24.2 -58.3 +0.0	+1.8 +0.0 +0.0	+0.6 +0.0 +0.0	+0.9 +0.0 +0.0	-9.5	24.5	19.9	+4.6	Horiz
17	1914.711M Ave	46.7	+26.6 -58.3 +0.0	+2.3 +0.0 +0.0	+0.7 +0.0 +0.0	+1.1 +0.0 +0.0	-9.5	9.6	31.9	-22.3	Vert
^	1914.711M	64.0	+26.6 -58.3 +0.0	+2.3 +0.0 +0.0	+0.7 +0.0 +0.0	+1.1 +0.0 +0.0	-9.5	26.9	31.9	-5.0	Vert
19	1682.258M Ave	46.0	+25.4 -58.3 +0.0	+2.1 +0.0 +0.0	+0.7 +0.0 +0.0	+1.0 +0.0 +0.0	-9.5	7.4	31.9	-24.5	Vert
^	1682.258M	68.5	+25.4 -58.3 +0.0	+2.1 +0.0 +0.0	+0.7 +0.0 +0.0	+1.0 +0.0 +0.0	-9.5	29.9	31.9	-2.0	Vert

Test Setup Photo(s)

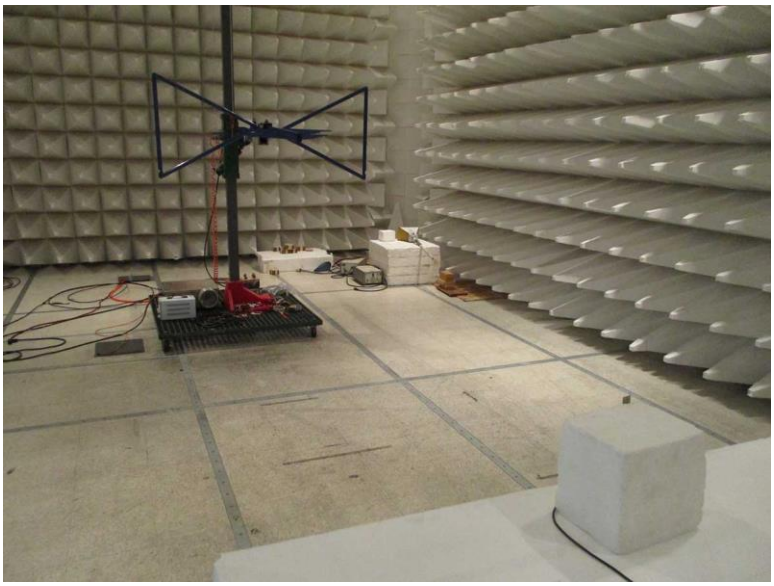


9kHz – 30MHz; Front View

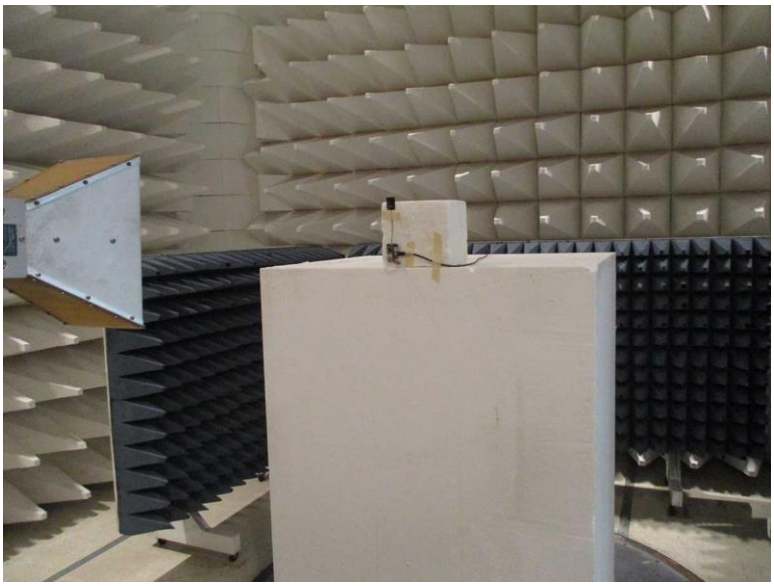


9kHz – 30MHz; Back View

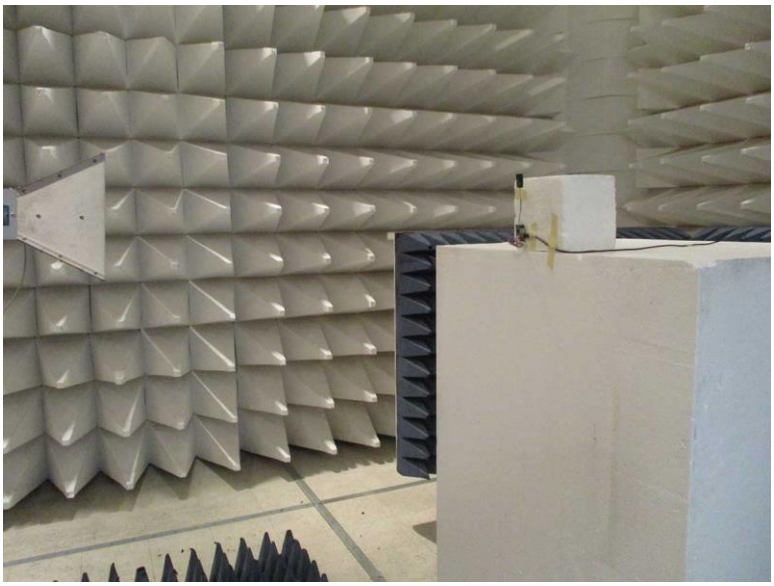
30MHz – 1GHz; Front View



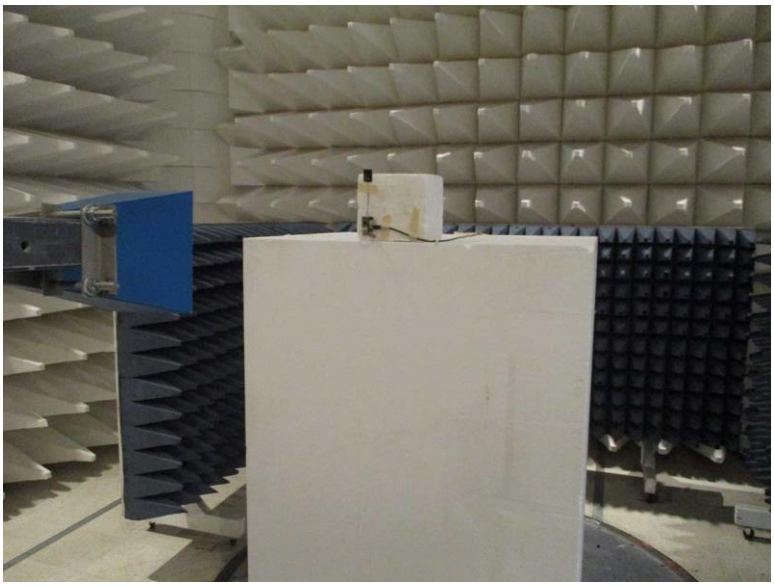
30MHz – 1GHz; Back View



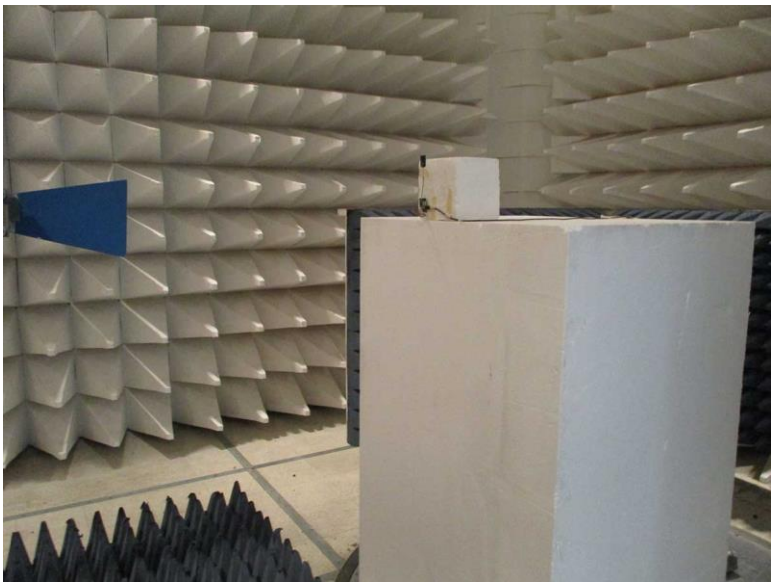
1GHz – 12GHz; Front View



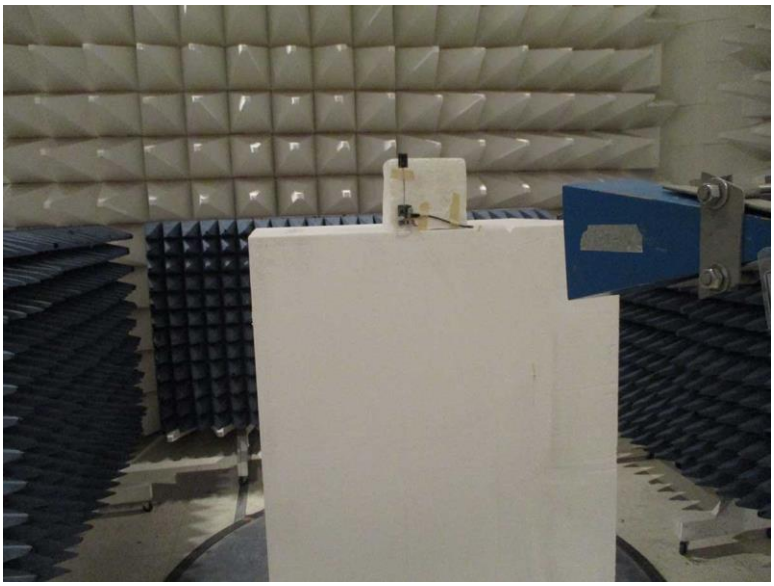
1GHz – 12GHz; Side View



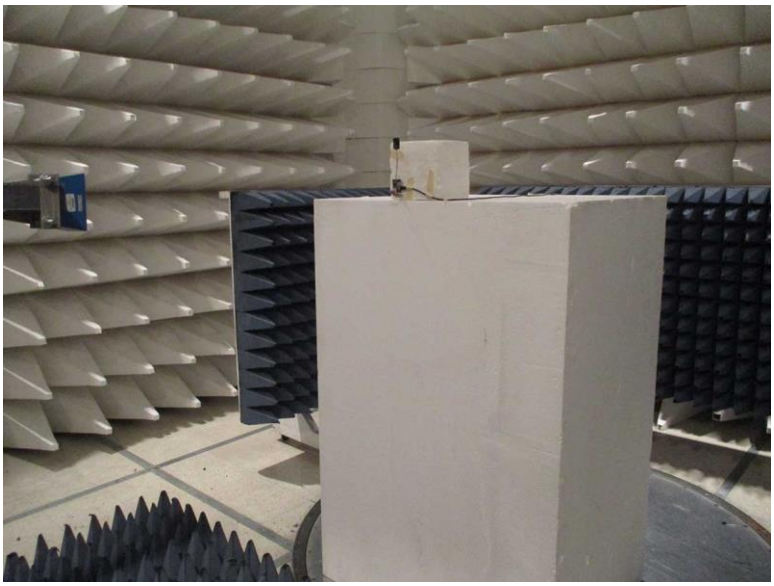
12GHz – 18GHz; Front View



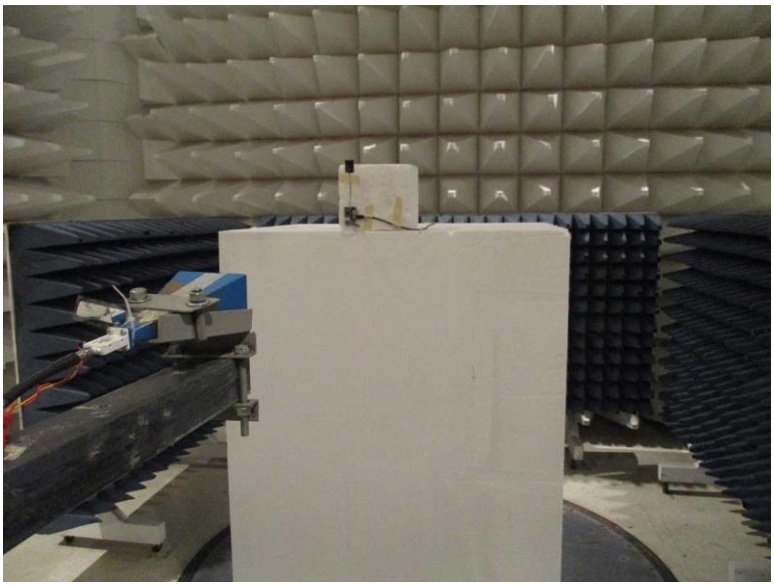
12GHz – 18GHz; Side View



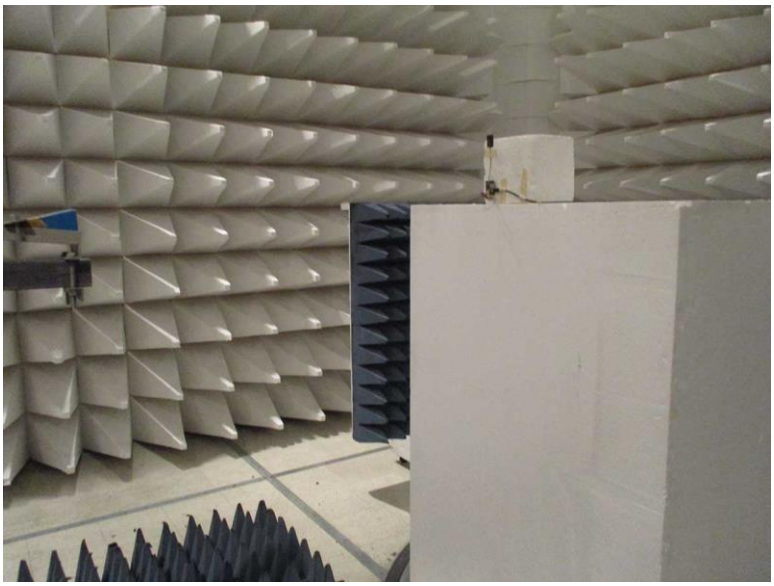
18GHz – 26.5GHz; Front View



18GHz – 26.5GHz; Side View



26.5GHz – 40GHz; Front View



26.5GHz – 40GHz; Side View

Band Edge

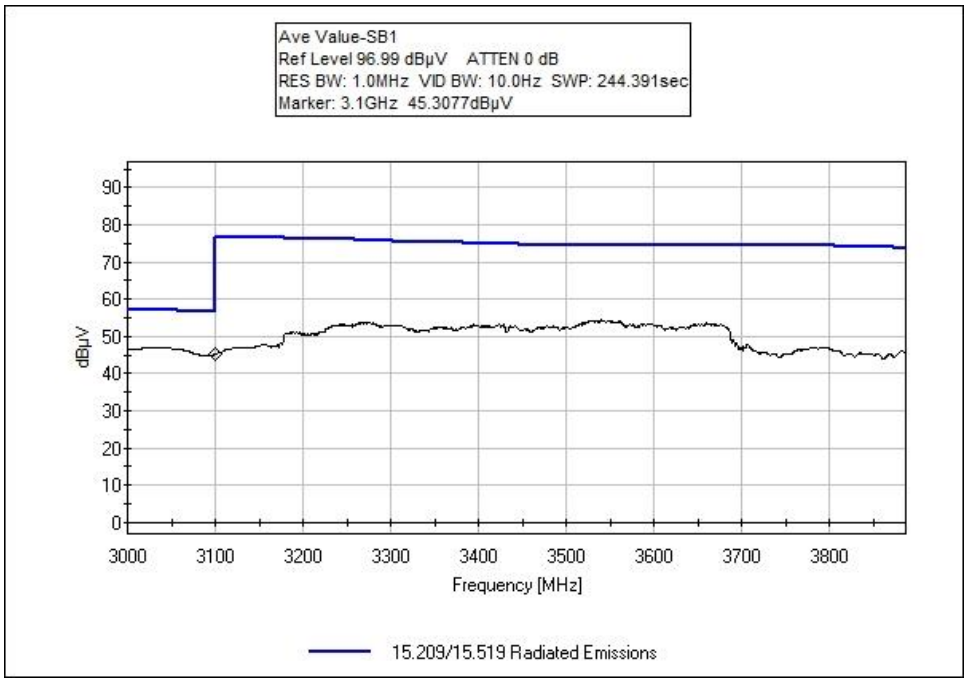
Band Edge Summary – Group 1					
Frequency (MHz)	**Modulation**	**Ant. Type**	**Field Strength (dBuV/m @3m)**	**Limit (dBuV/m @3m)**	**Results**
SB1 (3170 – 3695)	Multiband OFDM	Flexible UWB Antenna	45.3	<33.9	Pass
SB2 (3695 – 4224)	Multiband OFDM	Flexible UWB Antenna	45.3	<33.9	Pass
SB3 (4224-4750)	Multiband OFDM	Flexible UWB Antenna	45.3	<33.9	Pass

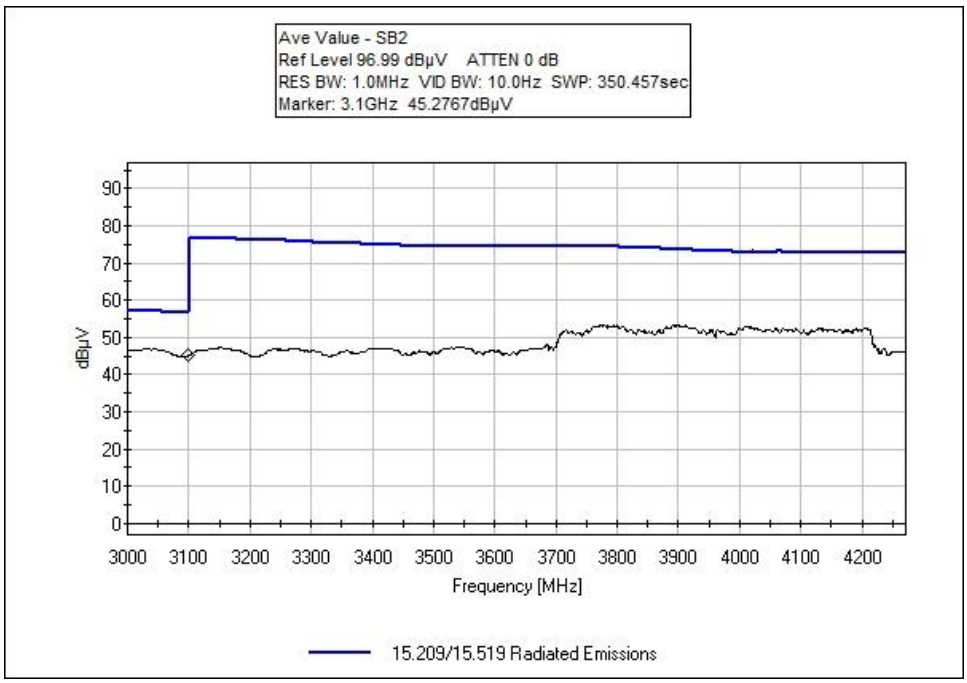
Band Edge Summary – Group 3					
Frequency (MHz)	**Modulation**	**Ant. Type**	**Field Strength (dBuV/m @1m)**	**Limit (dBuV/m @1m)**	**Results**
SB7 (6330 - 6864)	Multiband OFDM	Flexible UWB Antenna	25	<33.9	Pass
SB8 (6864 – 7392)	Multiband OFDM	Flexible UWB Antenna	25	<33.9	Pass
SB9 (7392-7924)	Multiband OFDM	Flexible UWB Antenna	24.9	<33.9	Pass

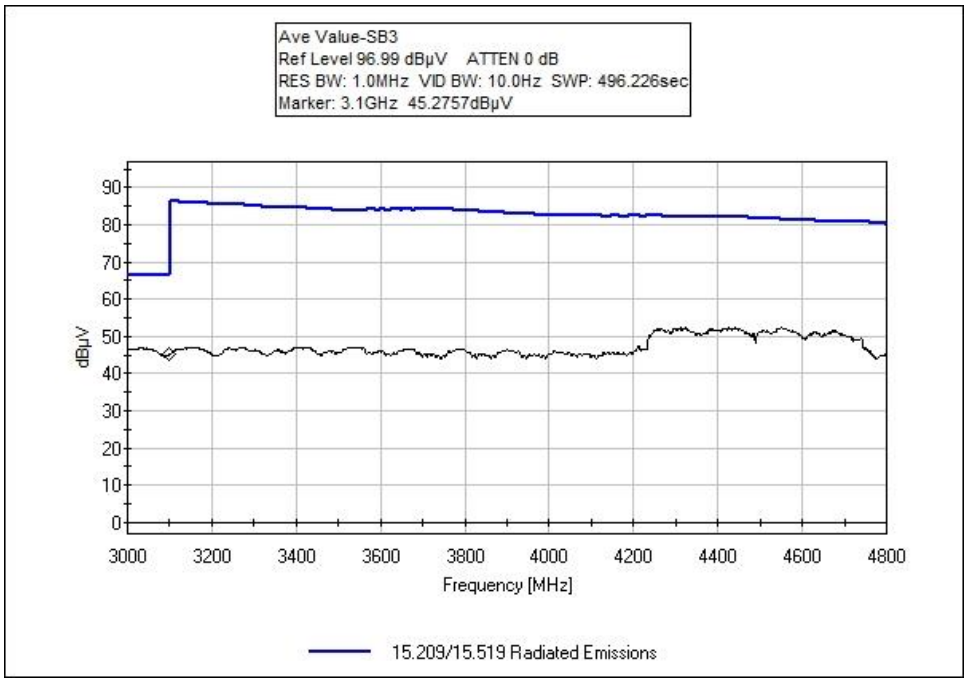
Test Limit				
Frequency (MHz)	**EIRP (dBm)**	**Field Strength (dBuV/m @3m)**	**RBW (MHz)**	**Distance (m)**
Below 960	NA	NA	NA	NA
960 to 1610	-75.3	19.9	1*	3
1610 to 1990	-63.3	31.9	1*	3
1990 to 3100	-61.3	33.9	1*	3
3100 to 10600	-41.3	53.9	1*	3
Above 10600	-61.3	33.9	1*	3

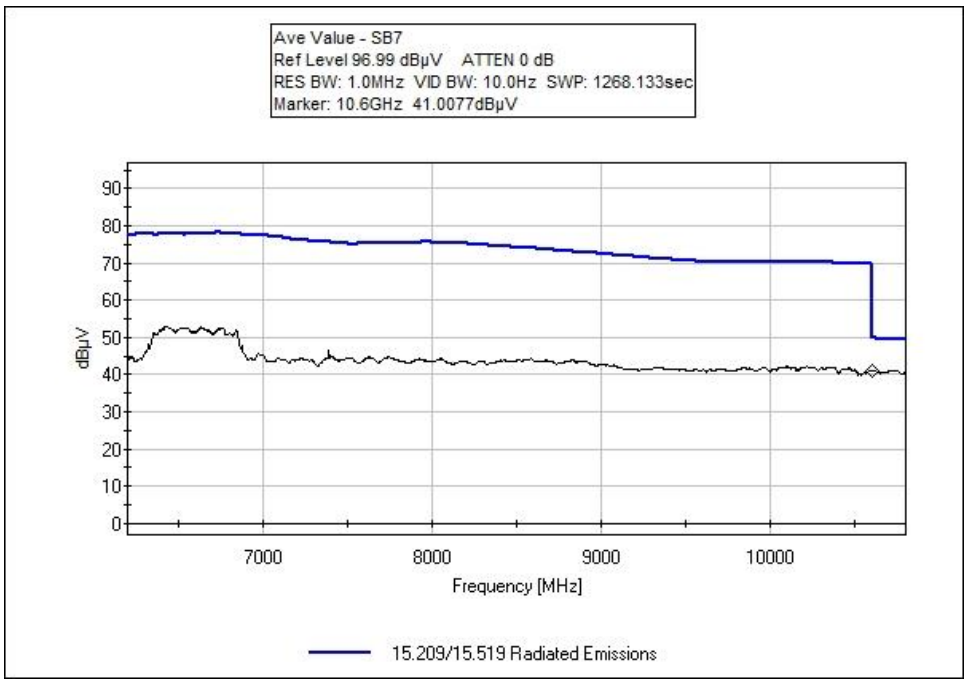
Notes:
*VBW > 3x RBW
NA = Follow 15.209 Limit
As FCC 47 CFR Part 15 subpart F: 15.503 k at 3 meters distance:
E (dBuV/m) = EIRP (dBm) - 95.2

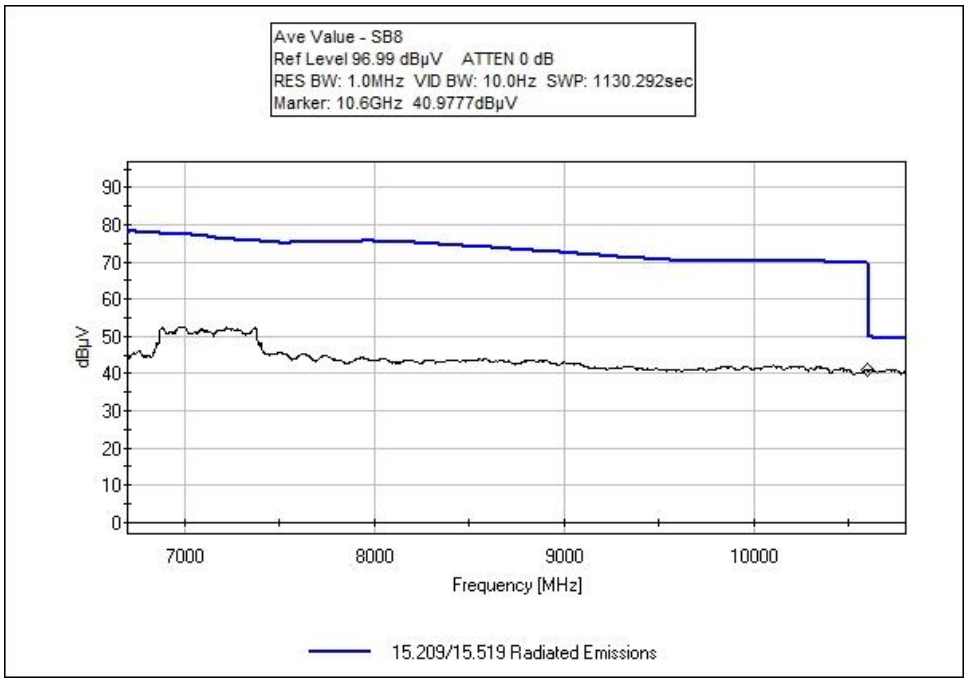
Band Edge Plots

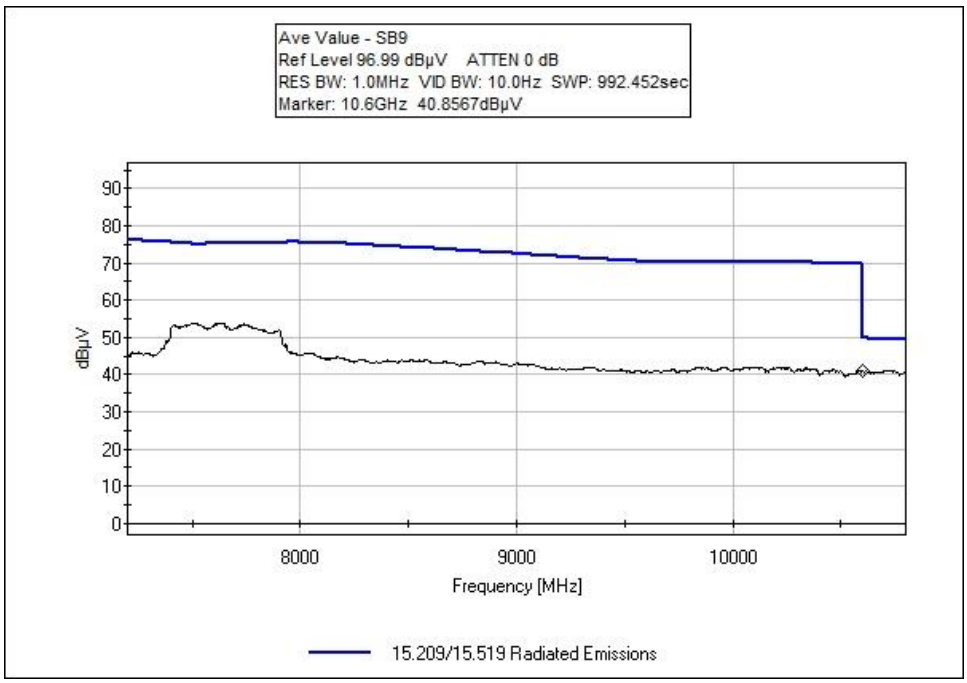




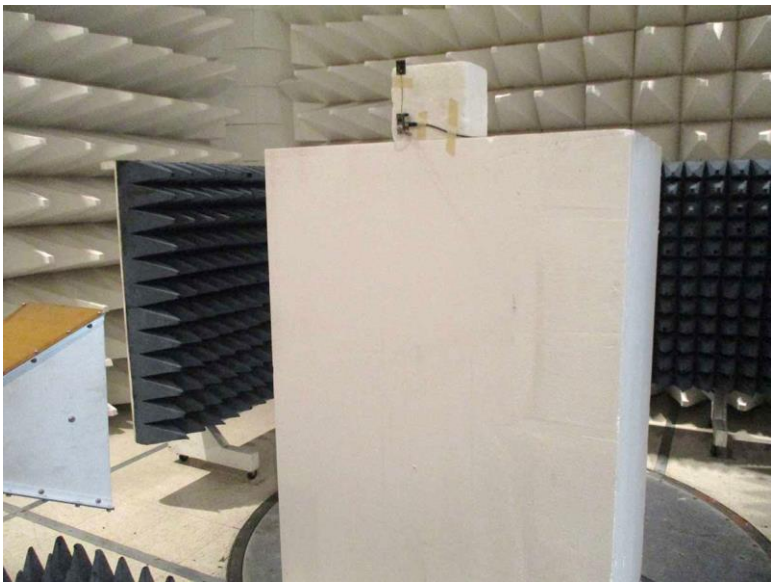

Ave Value-SB3
Ref Level 96.99 dBµV ATTEN 0 dB
RES BW: 1.0MHz VID BW: 10.0Hz SWP: 496.226sec
Marker: 3.1GHz 45.2757dBµV
dBµV
Frequency [MHz]
15.209/15.519 Radiated Emissions


Ave Value - SB7
Ref Level 96.99 dBµV ATTEN 0 dB
RES BW: 1.0MHz VID BW: 10.0Hz SWP: 1268.133sec
Marker: 10.6GHz 41.0077dBµV
dBµV
Frequency [MHz]
15.209/15.519 Radiated Emissions


Ave Value - SB8
Ref Level 96.99 dBµV ATTEN 0 dB
RES BW: 1.0MHz VID BW: 10.0Hz SWP: 1130.292sec
Marker: 10.6GHz 40.9777dBµV
dBµV
90
80
70
60
50
40
30
20
10
0
7000
8000
9000
10000
Frequency [MHz]
15.209/15.519 Radiated Emissions


Ave Value - SB9
Ref Level 96.99 dBµV ATTEN 0 dB
RES BW: 1.0MHz VID BW: 10.0Hz SWP: 992.452sec
Marker: 10.6GHz 40.8567dBµV
dBµV
90
80
70
60
50
40
30
20
10
0
8000
9000
10000
Frequency [MHz]
15.209/15.519 Radiated Emissions

Test Setup Photo(s)



Band Edge Test Setup

15.519(d) Radiated Emissions in GPS Bands

Test Limit				
Frequency (MHz)	EIRP (dBm)	Field Strength (dBuV/m @3m)	RBW (kHz)	Distance (m)
1164-1240	-85	9.9*	1*	3
1559-1610	-85	9.9*	1*	3

Note: *VBW > 3x RBW
As FCC 47 CFR Part 15 subpart F: 15.503 k at 3 meters distance:
E (dBuV/m) = EIRP (dBm) - 95.2

Test Setup / Conditions / Data

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/2/2020
Test Type:	**Radiated Scan**	Time:	19:28:03
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	20
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

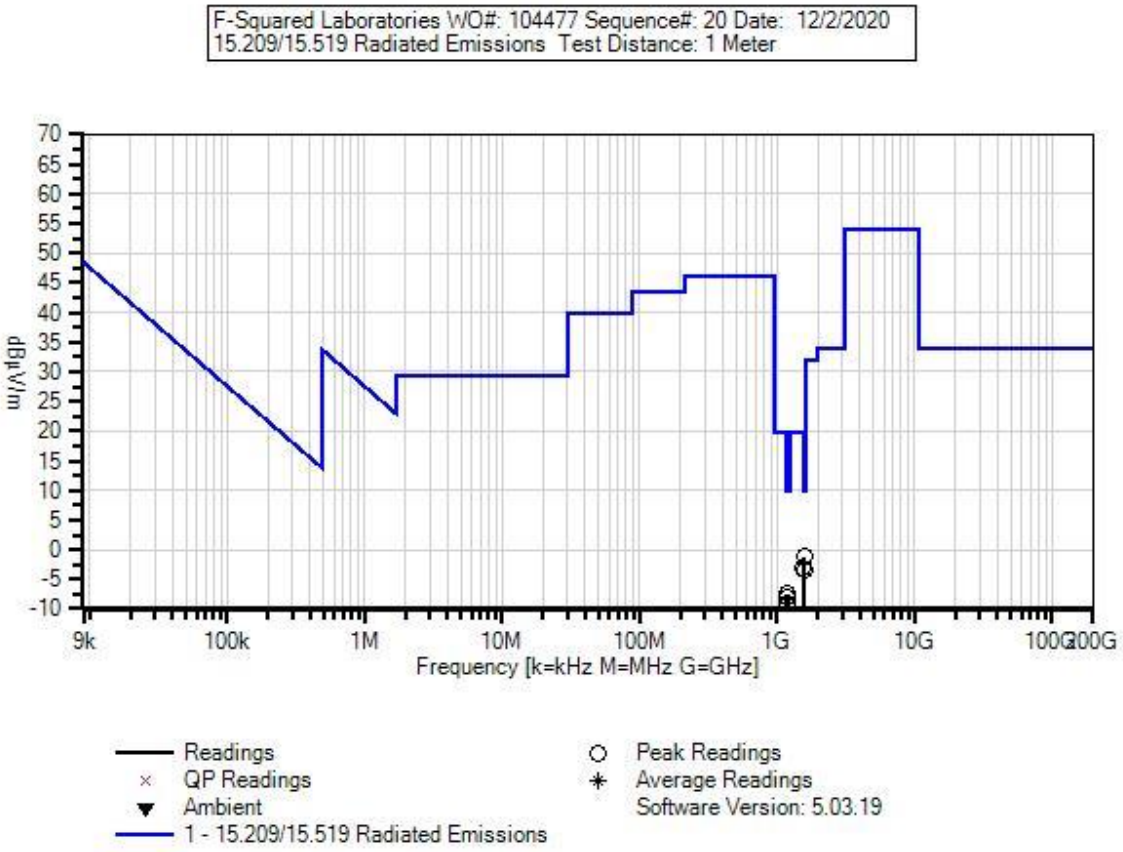
Radiated Emissions
Frequency Range: 1164MHz to 1610MHz

Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Test Methods: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 150cm.
It is connected to a laptop which is put outside the chamber.
Using UWB software to configure the EUT.
The EUT is placed non-conducted table. It is operated as intended. The EUT is connected to the laptop through mini USB cable which is under the table to configure and power the EUT. The EUT is measured at 1meter distance.

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Z -axis is the worst case
SB1



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/15/2019	1/15/2021
T2	ANP01210	Cable	FSJ1P-50A-4A	11/2/2020	11/2/2022
T3	ANP06902	Cable	32022-29094K-29094K-36TC	8/13/2020	8/13/2022
T4	AN03302	Cable	32026-29094K-29094K-72TC	1/9/2020	1/9/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T5	AN03713	Preamp	01001800-221055-202525	5/22/2019	5/22/2021

Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	1574.515M	38.1	+24.8 -58.3	+2.0	+0.7	+1.0	-9.5	-1.2	9.9	-11.1	Vert
2	1561.806M	36.3	+24.8 -58.3	+2.0	+0.7	+1.0	-9.5	-3.0	9.9	-12.9	Horiz
3	1570.397M	36.0	+24.8 -58.3	+2.0	+0.7	+1.0	-9.5	-3.3	9.9	-13.2	Horiz
4	1196.789M	32.9	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-7.4	9.9	-17.3	Horiz
5	1172.892M	32.3	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-8.0	9.9	-17.9	Horiz
6	1201.316M	31.2	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-9.1	9.9	-19.0	Vert

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/2/2020
Test Type:	**Radiated Scan**	Time:	19:50:19
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	21
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

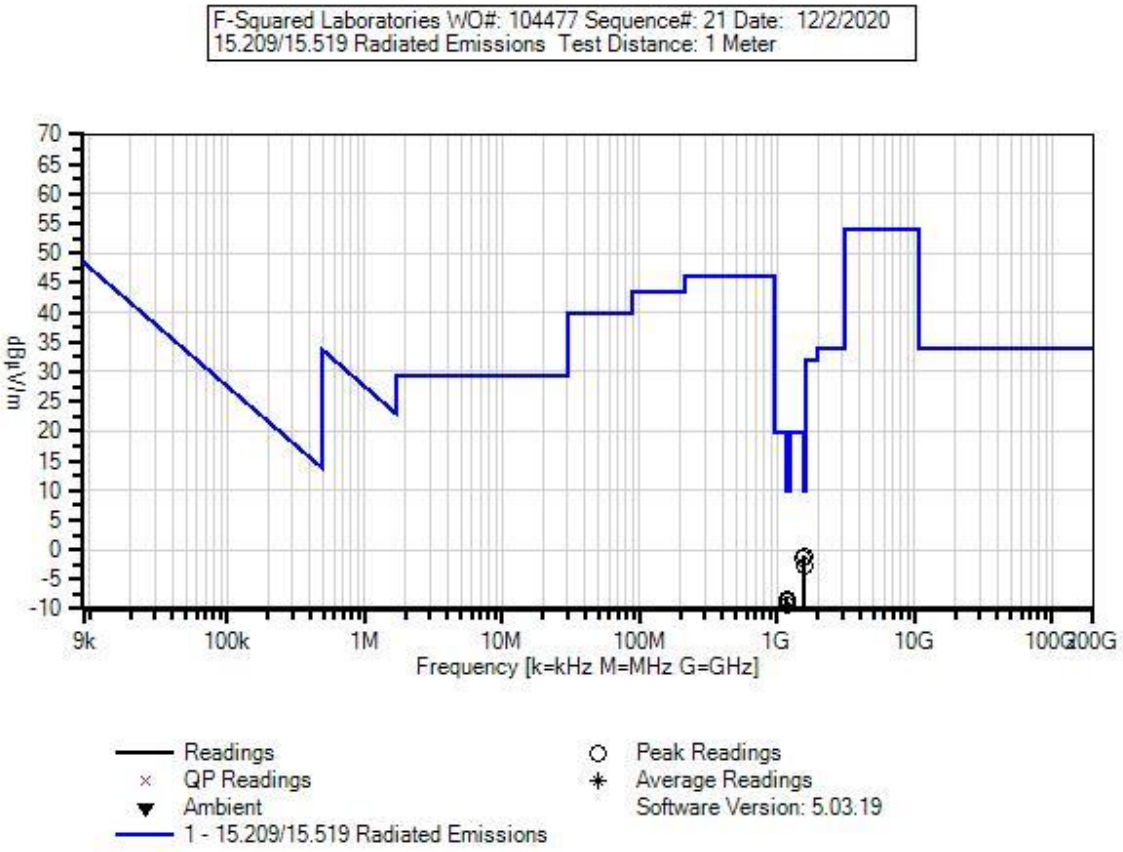
Radiated Emissions
Frequency Range: 1164MHz to 1610MHz

Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Method: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 150cm.
It is connected to a laptop which is put outside the chamber.
Using UWB software to configure the EUT.
The EUT is placed non-conducted table. It is operated as intended. The EUT is connected to the laptop through mini USB cable which is under the table to configure and power the EUT. The EUT is measured at 1meter distance

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Z -axis is the worst case
SB2



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/15/2019	1/15/2021
T2	ANP01210	Cable	FSJ1P-50A-4A	11/2/2020	11/2/2022
T3	ANP06902	Cable	32022-29094K-29094K-36TC	8/13/2020	8/13/2022
T4	AN03302	Cable	32026-29094K-29094K-72TC	1/9/2020	1/9/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T5	AN03713	Preamp	01001800-221055-202525	5/22/2019	5/22/2021

Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	1579.322M	38.2	+24.9 -58.3	+2.0	+0.7	+1.0	-9.5	-1.0	9.9	-10.9	Vert
2	1566.137M	37.9	+24.8 -58.3	+2.0	+0.7	+1.0	-9.5	-1.4	9.9	-11.3	Vert
3	1582.030M	36.6	+24.9 -58.3	+2.0	+0.7	+1.0	-9.5	-2.6	9.9	-12.5	Vert
4	1172.892M	32.0	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-8.3	9.9	-18.2	Horiz
5	1191.851M	31.6	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-8.7	9.9	-18.6	Horiz
6	1205.839M	30.8	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-9.5	9.9	-19.4	Horiz

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/2/2020
Test Type:	**Radiated Scan**	Time:	20:01:31
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	22
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

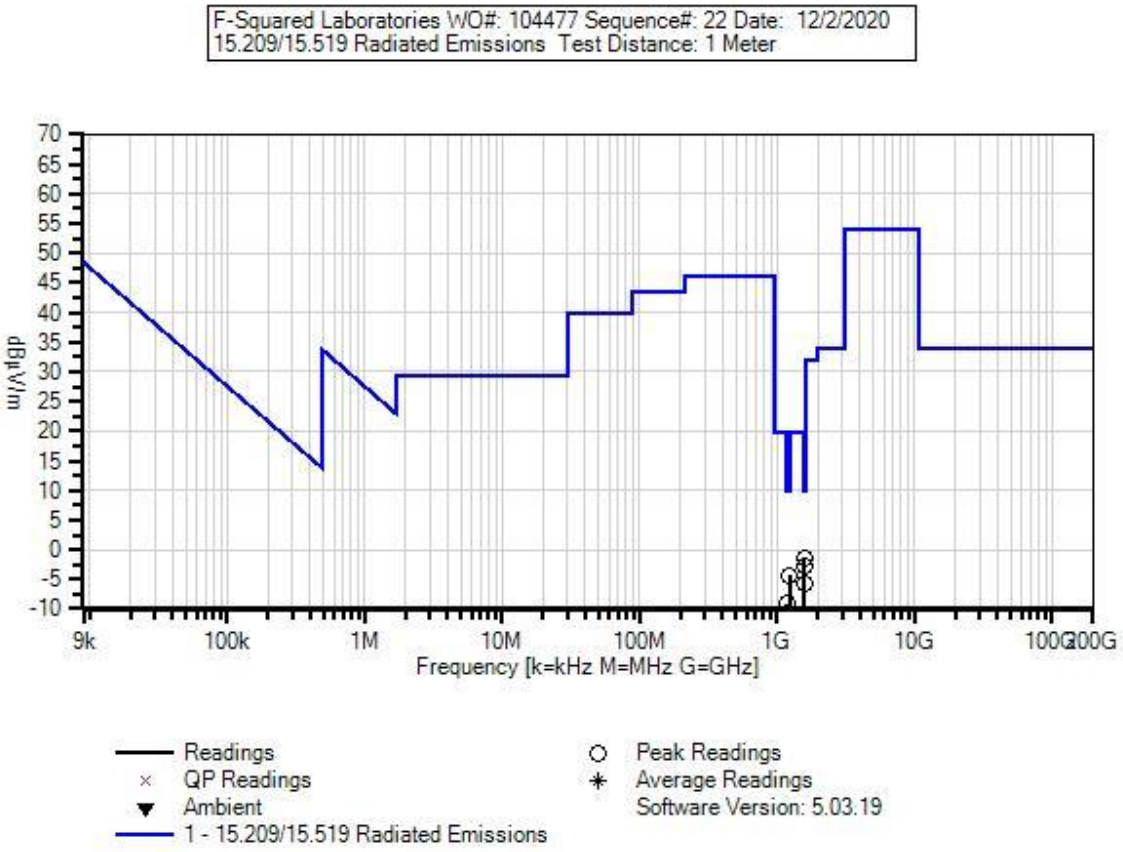
Radiated Emissions
Frequency Range: 1164MHz to 1610MHz

Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Method: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 150cm.
It is connected to a laptop which is put outside the chamber.
Using UWB software to configure the EUT.
The EUT is placed non-conducted table. It is operated as intended. The EUT is connected to the laptop through mini USB cable which is under the table to configure and power the EUT. The EUT is measured at 1meter distance

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Z -axis is the worst case
SB3



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/15/2019	1/15/2021
T2	ANP01210	Cable	FSJ1P-50A-4A	11/2/2020	11/2/2022
T3	ANP06902	Cable	32022-29094K-29094K-36TC	8/13/2020	8/13/2022
T4	AN03302	Cable	32026-29094K-29094K-72TC	1/9/2020	1/9/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T5	AN03713	Preamp	01001800-221055-202525	5/22/2019	5/22/2021

Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	1572.209M	37.7	+24.8 -58.3	+2.0	+0.7	+1.0	-9.5	-1.6	9.9	-11.5	Vert
2	1566.332M	36.5	+24.8 -58.3	+2.0	+0.7	+1.0	-9.5	-2.8	9.9	-12.7	Horiz
3	1226.623M	35.8	+24.3 -58.3	+1.8	+0.6	+0.9	-9.5	-4.4	9.9	-14.3	Vert
4	1586.097M	33.3	+24.9 -58.3	+2.1	+0.7	+1.0	-9.5	-5.8	9.9	-15.7	Horiz
5	1177.004M	31.2	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-9.1	9.9	-19.0	Horiz
6	1203.018M	31.2	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-9.1	9.9	-19.0	Horiz

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/4/2020
Test Type:	**Radiated Scan**	Time:	21:01:45
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	222
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

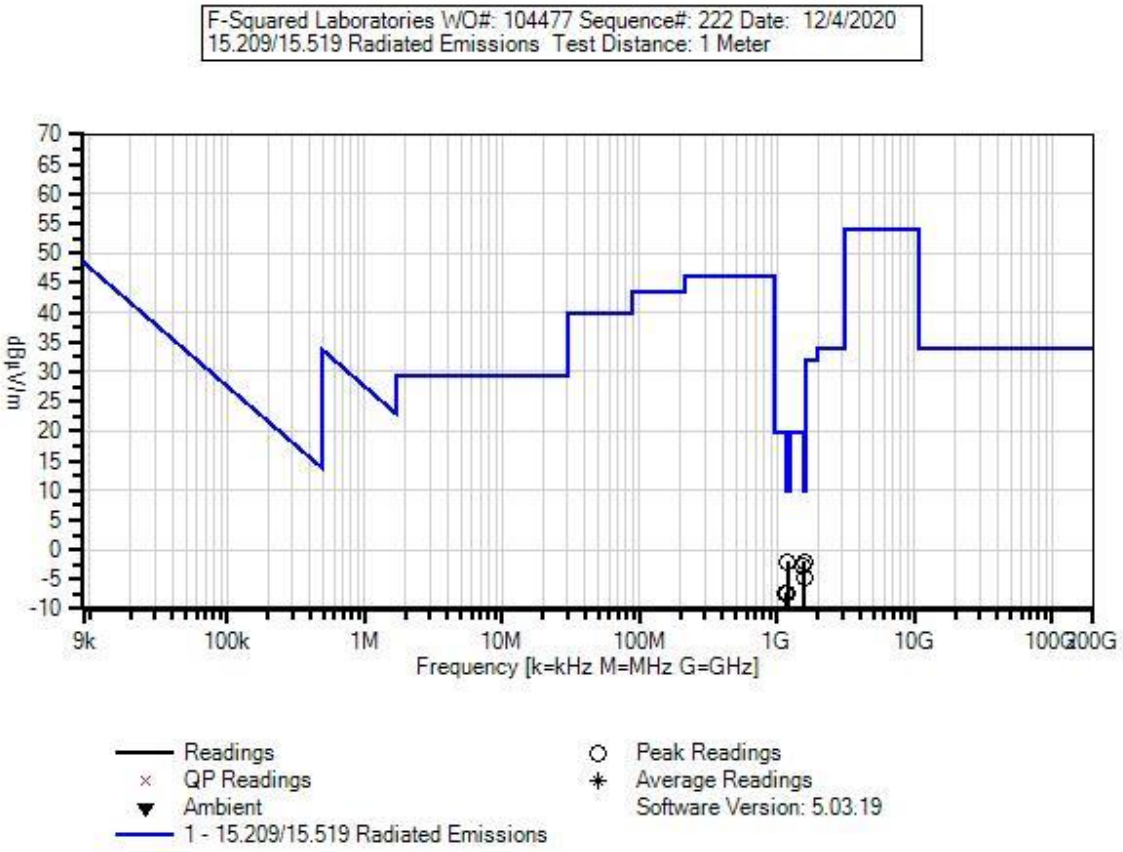
Radiated Emissions
Frequency Range: 1164MHz to 1610MHz

Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Method: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 150cm.
It is connected to a laptop which is put outside the chamber.
Using UWB software to configure the EUT.
The EUT is placed non-conducted table. It is operated as intended. The EUT is connected to the laptop through mini USB cable which is under the table to configure and power the EUT. The EUT is measured at 1meter distance

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Z -axis is the worst case
SB7



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/15/2019	1/15/2021
T2	ANP01210	Cable	FSJ1P-50A-4A	11/2/2020	11/2/2022
T3	ANP06902	Cable	32022-29094K-29094K-36TC	8/13/2020	8/13/2022
T4	AN03302	Cable	32026-29094K-29094K-72TC	1/9/2020	1/9/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T5	AN03713	Preamp	01001800-221055-202525	5/22/2019	5/22/2021

Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	1578.288M	37.2	+24.9 -58.3	+2.0	+0.7	+1.0	-9.5	-2.0	9.9	-11.9	Vert
2	1200.005M	38.3	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-2.0	9.9	-11.9	Vert
3	1563.402M	36.4	+24.8 -58.3	+2.0	+0.7	+1.0	-9.5	-2.9	9.9	-12.8	Vert
4	1585.740M	34.5	+24.9 -58.3	+2.1	+0.7	+1.0	-9.5	-4.6	9.9	-14.5	Vert
5	1166.510M	33.1	+24.2 -58.3	+1.7	+0.6	+0.9	-9.5	-7.3	9.9	-17.2	Horiz
6	1176.461M	32.9	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-7.4	9.9	-17.3	Horiz

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/4/2020
Test Type:	**Radiated Scan**	Time:	21:13:28
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	223
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

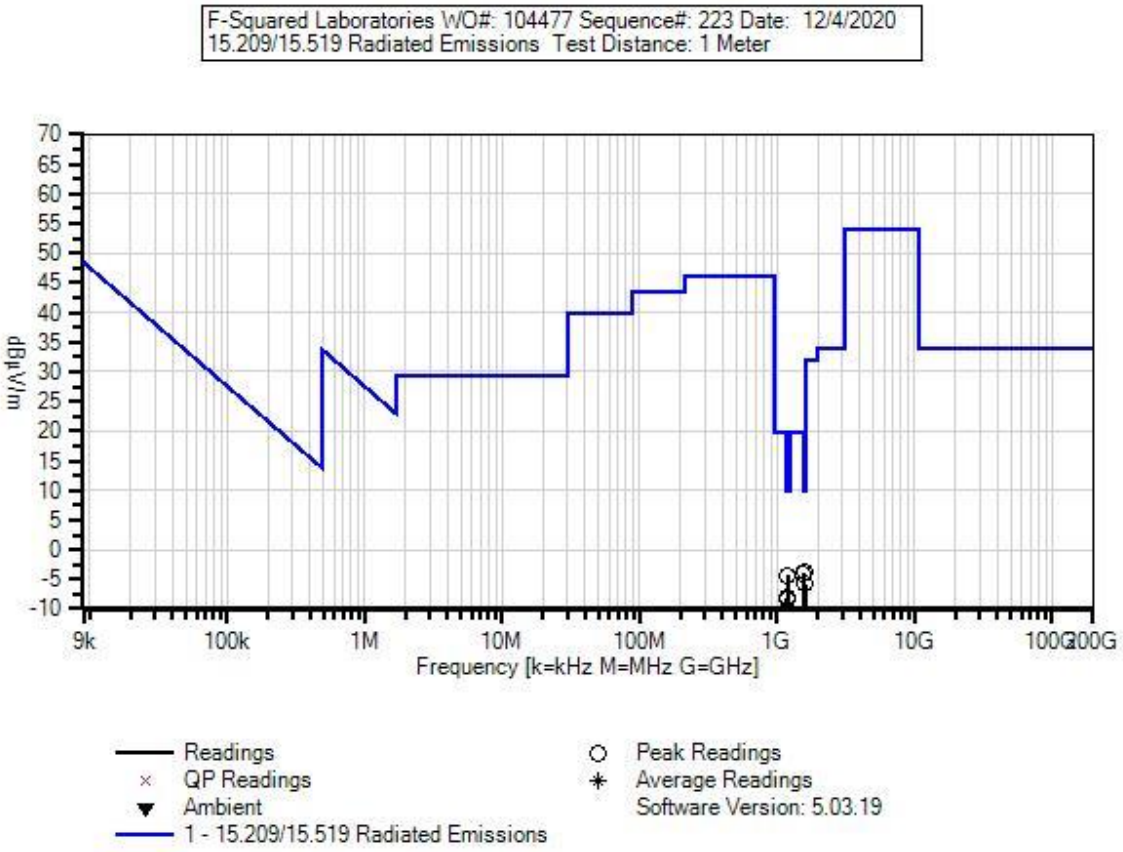
Radiated Emissions
Frequency Range: 1164MHz to 1610MHz

Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Method: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 150cm.
It is connected to a laptop which is put outside the chamber.
Using UWB software to configure the EUT.
The EUT is placed non-conducted table. It is operated as intended. The EUT is connected to the laptop through mini USB cable which is under the table to configure and power the EUT. The EUT is measured at 1meter distance

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Z -axis is the worst case
SB8



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/15/2019	1/15/2021
T2	ANP01210	Cable	FSJ1P-50A-4A	11/2/2020	11/2/2022
T3	ANP06902	Cable	32022-29094K-29094K-36TC	8/13/2020	8/13/2022
T4	AN03302	Cable	32026-29094K-29094K-72TC	1/9/2020	1/9/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T5	AN03713	Preamp	01001800-221055-202525	5/22/2019	5/22/2021

Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	1567.674M	35.5	+24.8 -58.3	+2.0	+0.7	+1.0	-9.5	-3.8	9.9	-13.7	Vert
2	1562.216M	35.3	+24.8 -58.3	+2.0	+0.7	+1.0	-9.5	-4.0	9.9	-13.9	Horiz
3	1188.004M	35.9	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-4.4	9.9	-14.3	Vert
4	1595.668M	33.2	+25.0 -58.3	+2.1	+0.7	+1.0	-9.5	-5.8	9.9	-15.7	Horiz
5	1172.515M	32.2	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-8.1	9.9	-18.0	Horiz
6	1202.681M	31.9	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-8.4	9.9	-18.3	Horiz

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Pl • Fremont CA 94539 • 510-249-1170		
Customer:	**Infinite Arthroscopy Inc. LLC DBA Indago**		
Specification:	**15.209/15.519 Radiated Emissions**		
Work Order #:	**104477**	Date:	12/4/2020
Test Type:	**Radiated Scan**	Time:	21:26:03
Tested By:	Hoang Cao/Hieu Song Nguyenpham	Sequence#:	224
Software:	EMITest 5.03.19		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

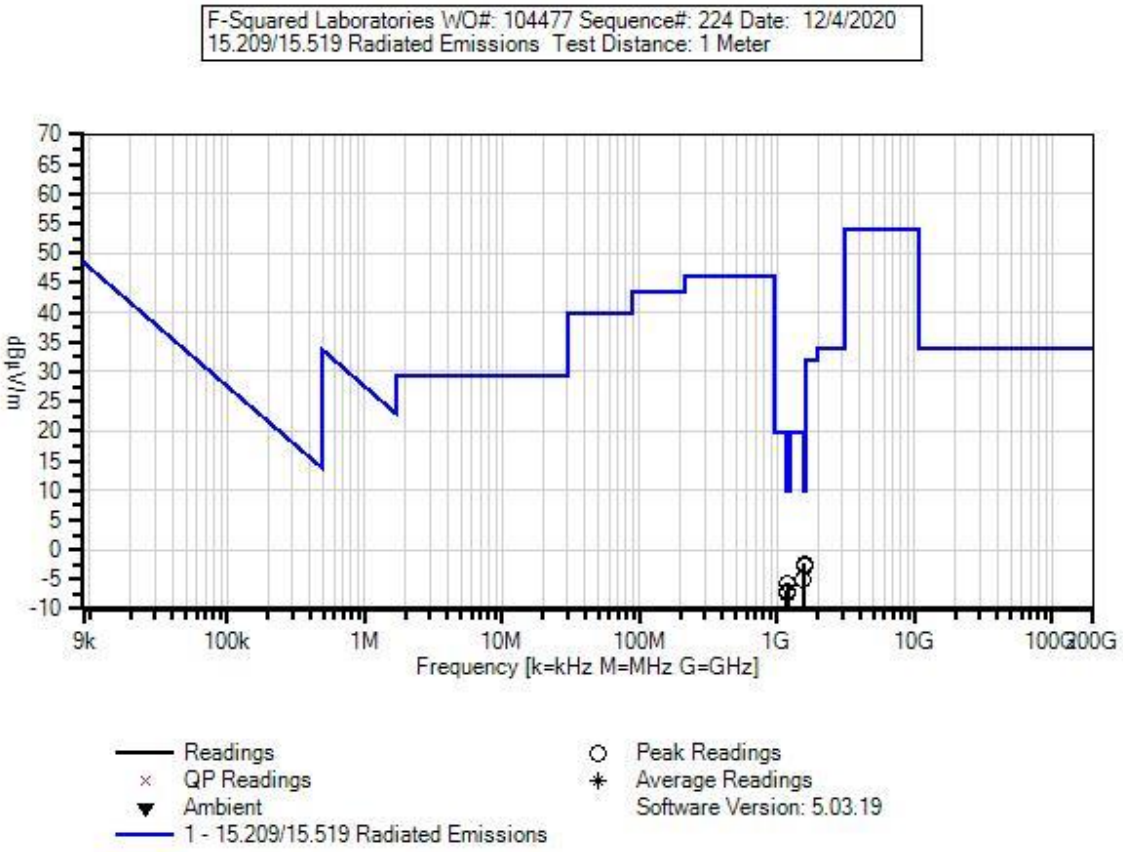
Radiated Emissions
Frequency Range: 1164MHz to 1610MHz

Test Environment Conditions:
Temperature: 21.6°C
Relative Humidity: 33%
Atmospheric Pressure: 101.8kPa
Method: ANSI C 63.10 (2013), KDB 393764 D01 UWB FAQv02 January 29, 2018

The EUT is set up as intended. It is set up on the table height 150cm.
It is connected to a laptop which is put outside the chamber.
Using UWB software to configure the EUT.
The EUT is placed non-conducted table. It is operated as intended. The EUT is connected to the laptop through mini USB cable which is under the table to configure and power the EUT. The EUT is measured at 1meter distance

FCC ID: T8YRTU7105-MOD-V3
The only change in the module is the antenna.

Z -axis is the worst case
SB9



Note: At the time of testing F-Squared was identified in the above plot. The company name should read Infinite Arthroscopy Inc. LLC DBA Indago. The screen captures were taken at the time of testing and cannot be changed.

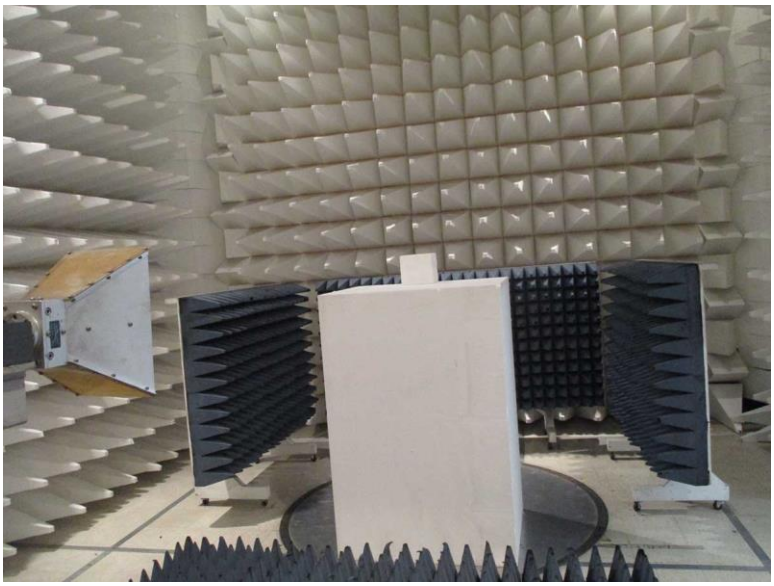
Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/15/2019	1/15/2021
T2	ANP01210	Cable	FSJ1P-50A-4A	11/2/2020	11/2/2022
T3	ANP06902	Cable	32022-29094K-29094K-36TC	8/13/2020	8/13/2022
T4	AN03302	Cable	32026-29094K-29094K-72TC	1/9/2020	1/9/2022
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T5	AN03713	Preamp	01001800-221055-202525	5/22/2019	5/22/2021

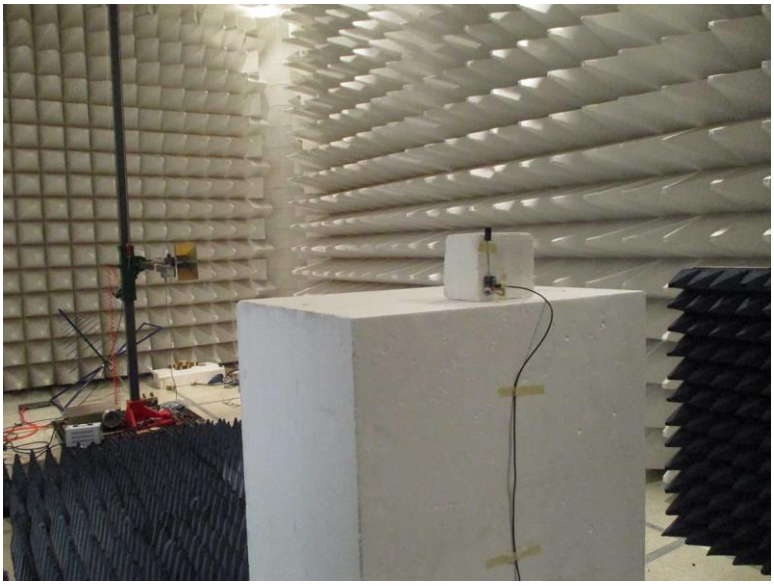
Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	1566.429M	36.9	+24.8 -58.3	+2.0	+0.7	+1.0	-9.5	-2.4	9.9	-12.3	Vert
2	1582.281M	36.4	+24.9 -58.3	+2.0	+0.7	+1.0	-9.5	-2.8	9.9	-12.7	Vert
3	1562.112M	34.3	+24.8 -58.3	+2.0	+0.7	+1.0	-9.5	-5.0	9.9	-14.9	Horiz
4	1196.140M	34.5	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-5.8	9.9	-15.7	Vert
5	1169.508M	33.5	+24.2 -58.3	+1.7	+0.6	+0.9	-9.5	-6.9	9.9	-16.8	Vert
6	1184.378M	33.0	+24.2 -58.3	+1.8	+0.6	+0.9	-9.5	-7.3	9.9	-17.2	Vert

Test Setup Photo(s)



Front View



Back View

15.519(e) Peak EIRP Fundamental

Test Setup/Conditions			
Test Location:	Fremont Lab C3	Test Engineer:	Hoang Cao/Hieu Song Nguyenpham
Test Method:	ANSI C63.10 (2013), KDB 393764D01 UWB FAQv02 January 29, 2018	Test Date(s):	12/1/2020
Configuration:	1		
Test Setup:	The EUT is placed non-conducted table. It is operated as intended. The EUT is connected to the laptop through mini USB cable which is under the table to configure and power the EUT. RBW = 8MHz VBW = 50MHz Band Group 1 (SB1, SB2 and SB3) Band Group 3 (SB7, SB8, and SB9)		

Environmental Conditions			
Temperature (ºC)	21.8	Relative Humidity (%):	37

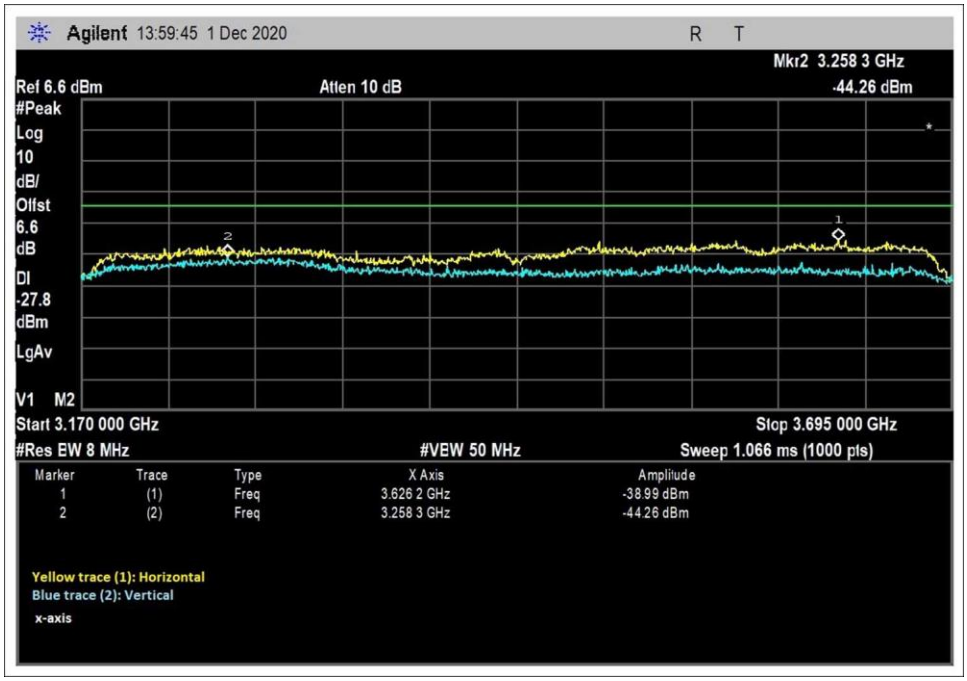
Test Equipment					
Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
02157	Horn Antenna	EMCO	3115	1/15/2019	1/15/2021
P01210	Cable	Andrews	FSJ1P-50A-4A	11/2/2020	11/2/2022
P06902	Cable	Astrolab	32022-29094K-29094K-36TC	8/13/2020	8/13/2022
03302	Cable	Astrolab	32026-29094K-29094K-72TC	1/9/2020	1/9/2022
02812	Preamp	HP	83017-69004	9/22/2020	9/22/2022
02668	Spectrum Analyzer	Agilent	E4446A	12/17/2019	12/17/2020

Test Limit				
Frequency (MHz)	EIRP (dBm)	Field Strength (dBm/m @3m)	RBW (MHz) / VBW (MHz)	Distance (m)
SB1 (3170 to 3695)	-16	-27.8	8 / 50	3
SB2 (3695 to 4224)	-16	-27.8	8 / 50	3
SB3 (4224 to 4750)	-16	-27.8	8 / 50	3
SB7 (6330 to 6864)	-16	-27.8	8 / 50	3
SB8 (6864 to 7392)	-16	-27.8	8 / 50	3
SB9 (7392 to 7924)	-16	-27.8	8 / 50	3

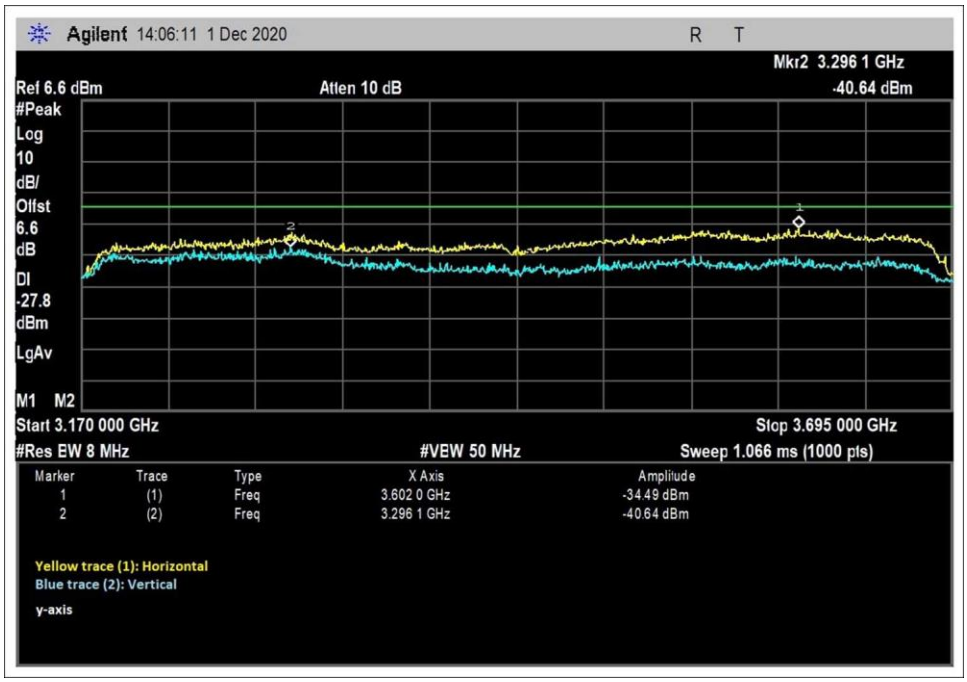
Peak EIRP Fundamental Summary – Band Group 1						
Frequency (MHz)	**Orientation of EUT**	**Polarity**	**Field Strength (dBm/m @3m)**	**Limit (dBm/m @3m)**	**Margin**	**Results**
SB1 (3170 – 3695)	x-axis	Horizontal	-38.99	< -27.8	-11.19	Pass
		Vertical	-44.26	< -27.8	-16.46	Pass
	y-axis	Horizontal	-34.49	< -27.8	-6.69	Pass
		Vertical	-40.64	< -27.8	-12.84	Pass
	z-axis	Horizontal	-43.33	< -27.8	-15.53	Pass
		Vertical	-35.24	< -27.8	-7.44	Pass
SB2 (3695 – 4224)	x-axis	Horizontal	-38.06	< -27.8	-10.26	Pass
		Vertical	-42.98	< -27.8	-15.18	Pass
	y-axis	Horizontal	-35.1	< -27.8	-7.3	Pass
		Vertical	-42.03	< -27.8	-14.23	Pass
	z-axis	Horizontal	-44.58	< -27.8	-16.78	Pass
		Vertical	-35.54	< -27.8	-7.74	Pass
SB3 (4224 – 4750)	x-axis	Horizontal	-38.14	< -27.8	-10.34	Pass
		Vertical	-44	< -27.8	-16.2	Pass
	y-axis	Horizontal	-35.26	< -27.8	-7.46	Pass
		Vertical	-40.95	< -27.8	-13.15	Pass
	z-axis	Horizontal	-44.84	< -27.8	-17.04	Pass
		Vertical	-35.74	< -27.8	-7.94	Pass

Peak EIRP Fundamental Summary – Band Group 3						
Frequency (MHz)	**Orientation of EUT**	**Polarity**	**Field Strength (dBm/m @3m)**	**Limit (dBm/m @3m)**	**Margin**	**Results**
SB7 (6330 – 6864)	x-axis	Horizontal	-39.33	< -27.8	-11.53	Pass
		Vertical	-41.91	< -27.8	-14.11	Pass
	y-axis	Horizontal	-37.01	< -27.8	-9.21	Pass
		Vertical	-40.36	< -27.8	-12.56	Pass
	z-axis	Horizontal	-41.33	< -27.8	-13.53	Pass
		Vertical	-34.25	< -27.8	-6.45	Pass
SB8 (6864 – 7392)	x-axis	Horizontal	-37.58	< -27.8	-9.78	Pass
		Vertical	-40.45	< -27.8	-12.65	Pass
	y-axis	Horizontal	-37.09	< -27.8	-9.29	Pass
		Vertical	-39.51	< -27.8	-11.71	Pass
	z-axis	Horizontal	-41.75	< -27.8	-13.95	Pass
		Vertical	-32.29	< -27.8	-4.49	Pass
SB9 (7392 – 7924)	x-axis	Horizontal	-36.55	< -27.8	-8.75	Pass
		Vertical	-42.13	< -27.8	-14.33	Pass
	y-axis	Horizontal	-36.66	< -27.8	-8.86	Pass
		Vertical	-41	< -27.8	-13.2	Pass
	z-axis	Horizontal	-41.91	< -27.8	-14.11	Pass
		Vertical	-30.15	< -27.8	-2.35	Pass

Plots



SB1; X – Axis



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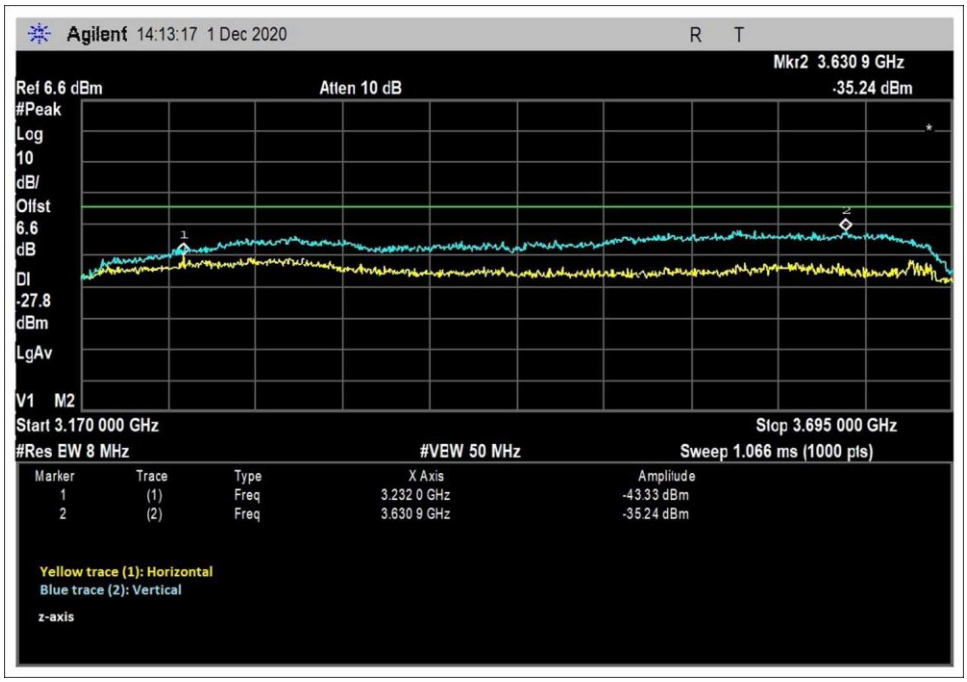

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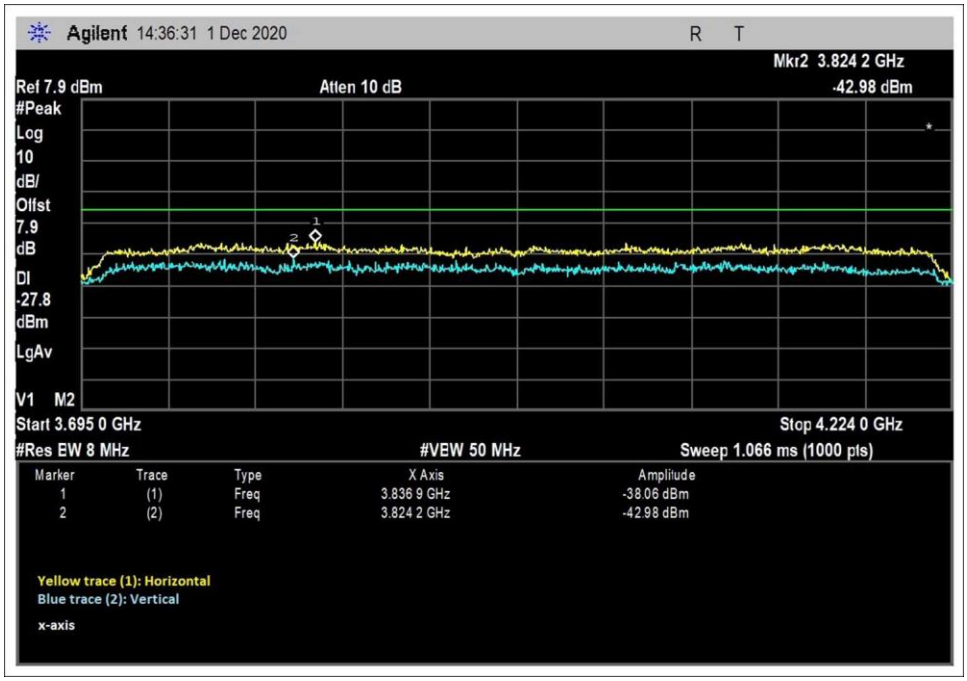

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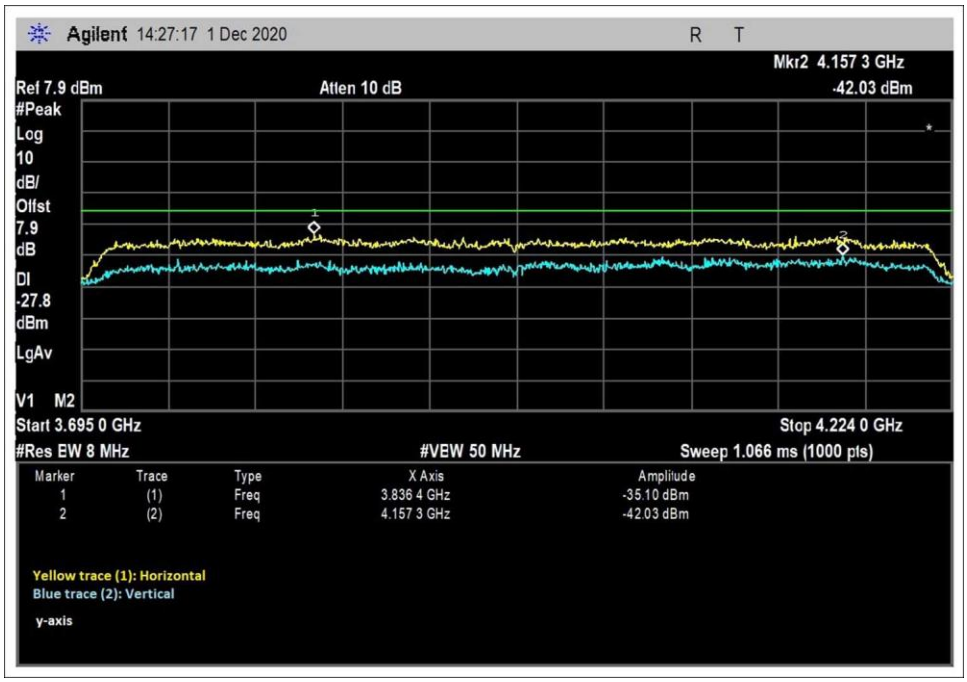

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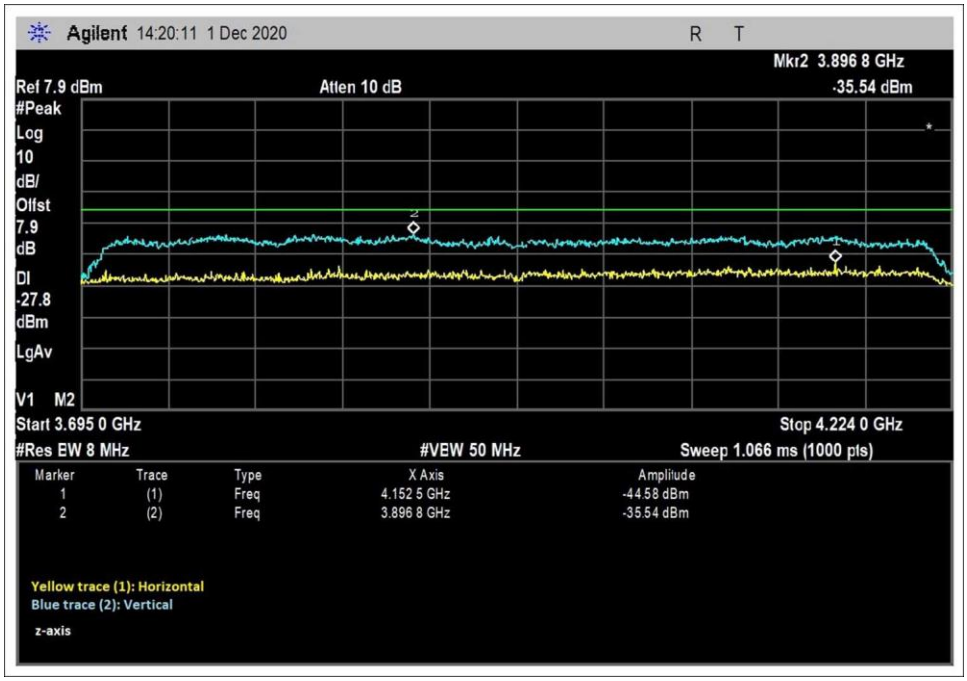

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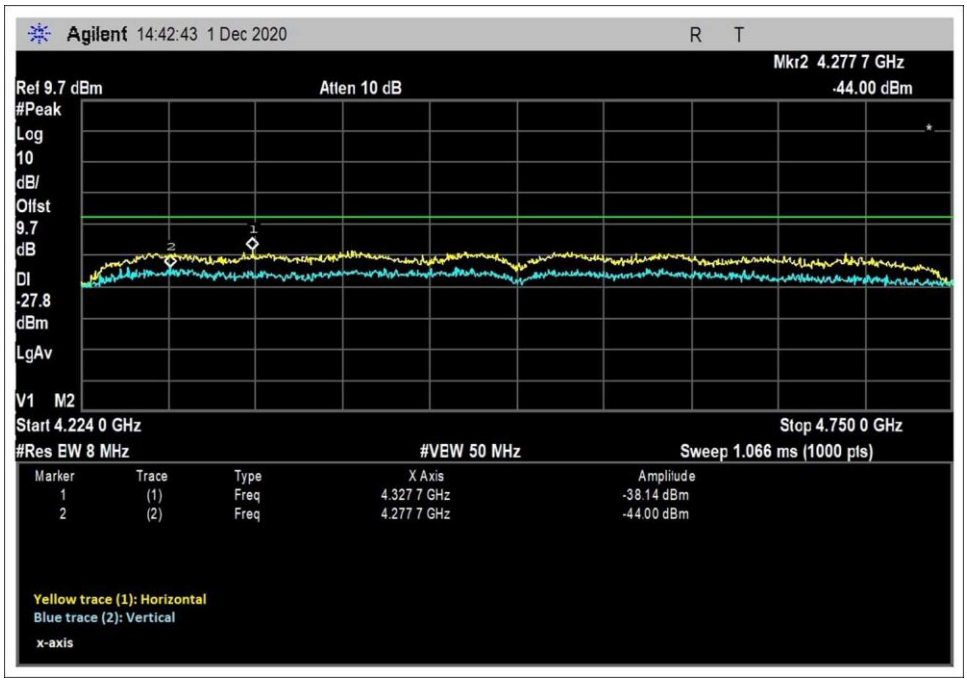

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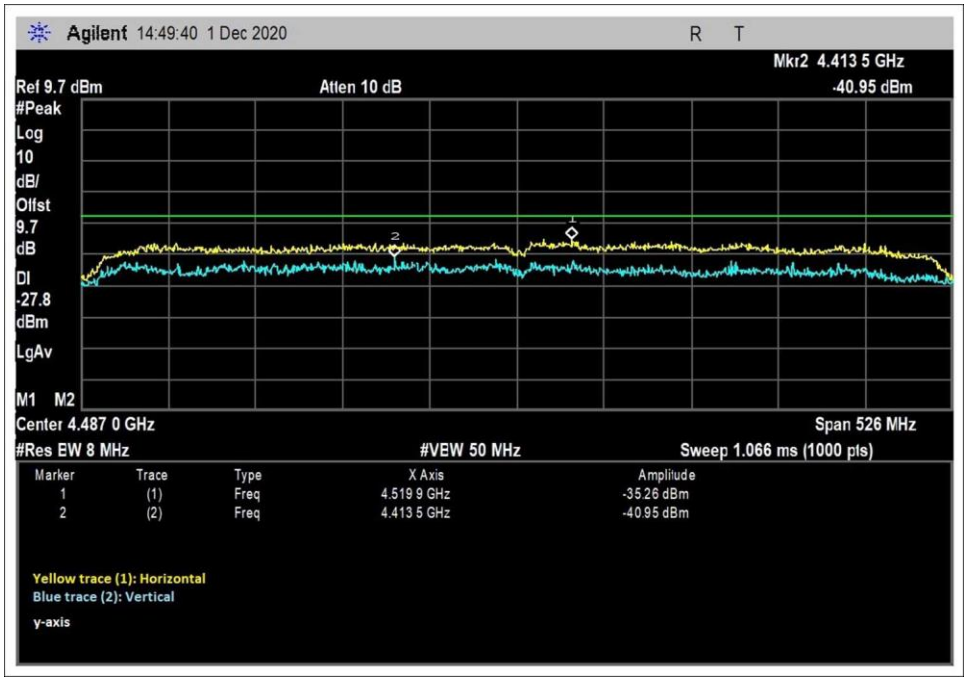

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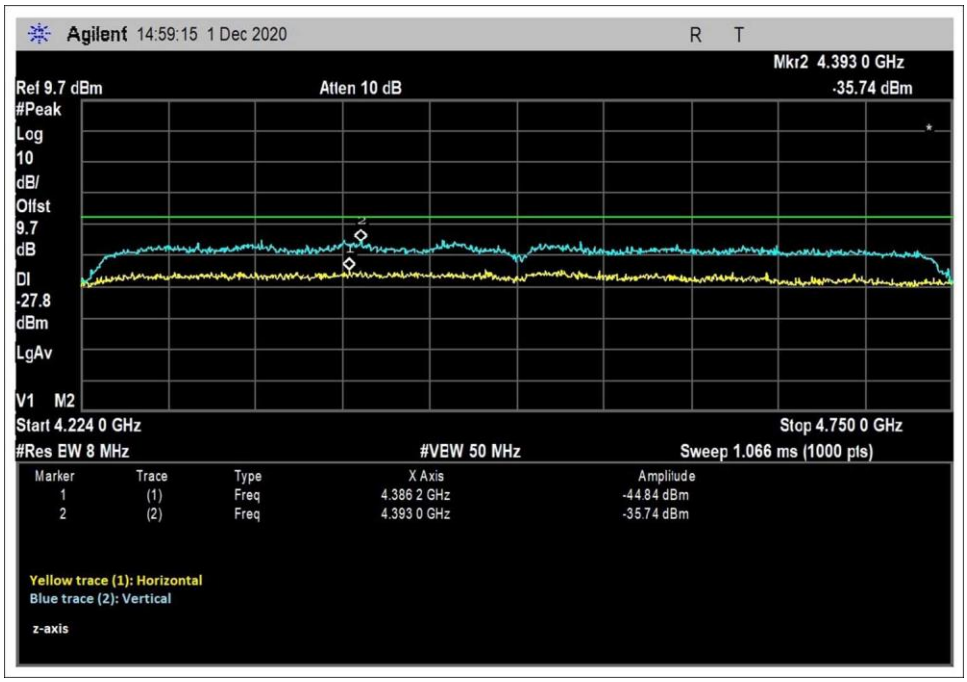

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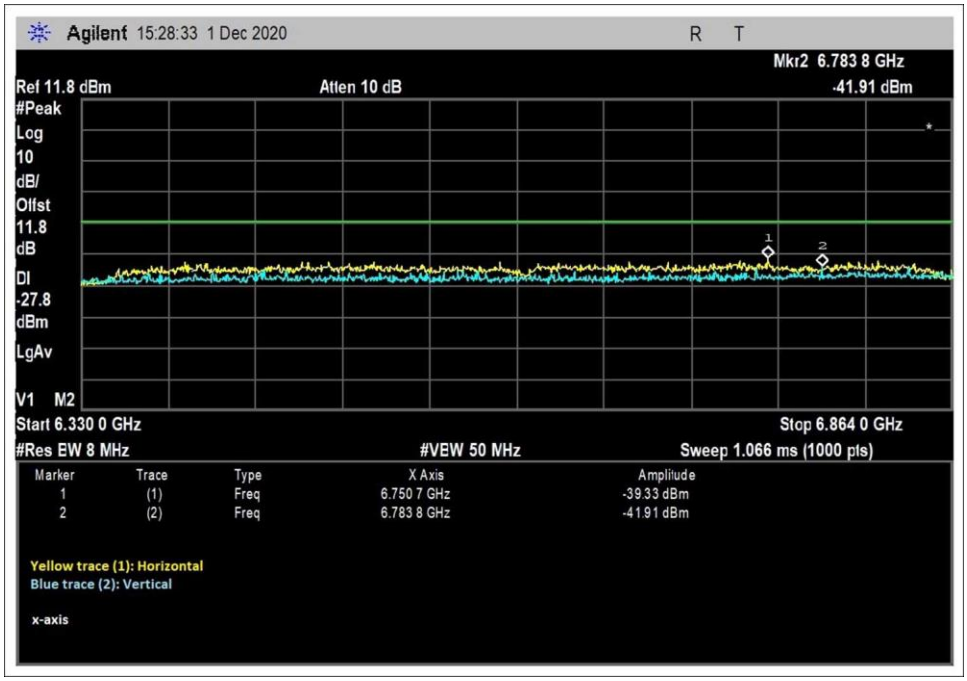

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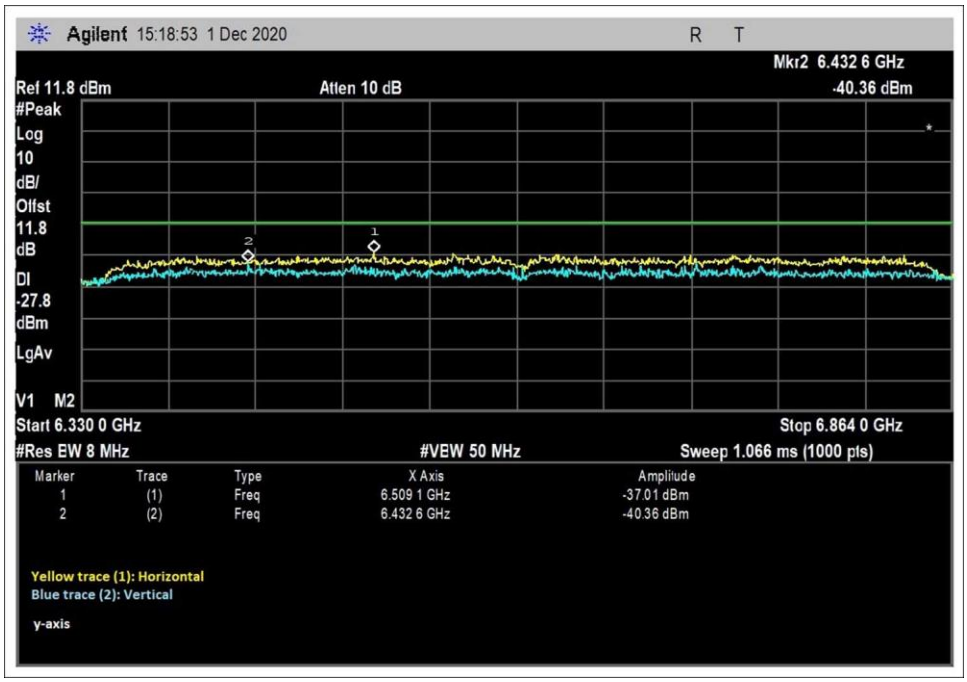

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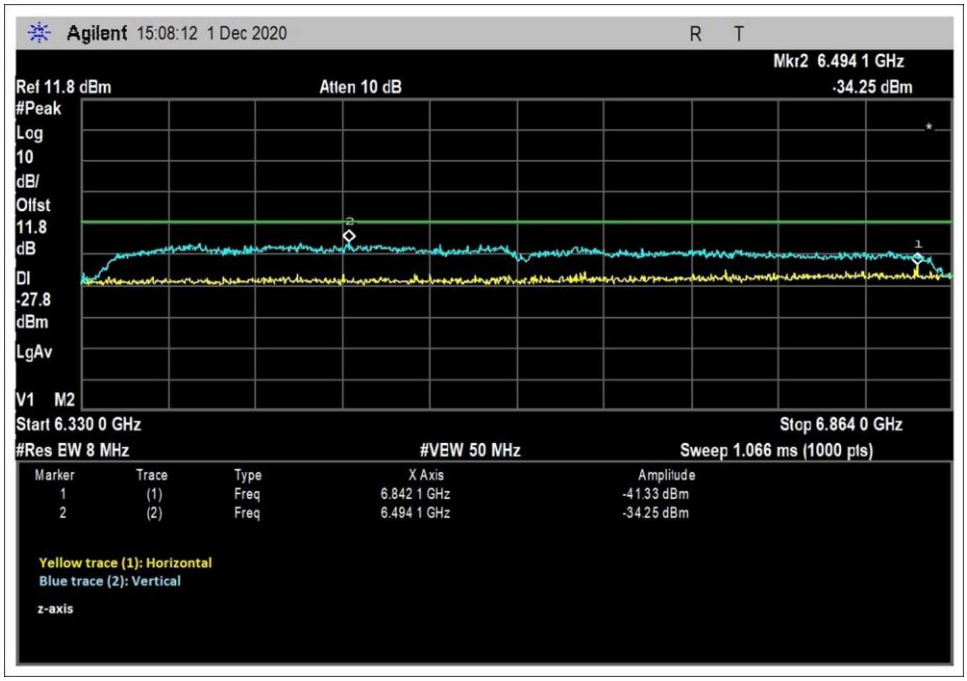

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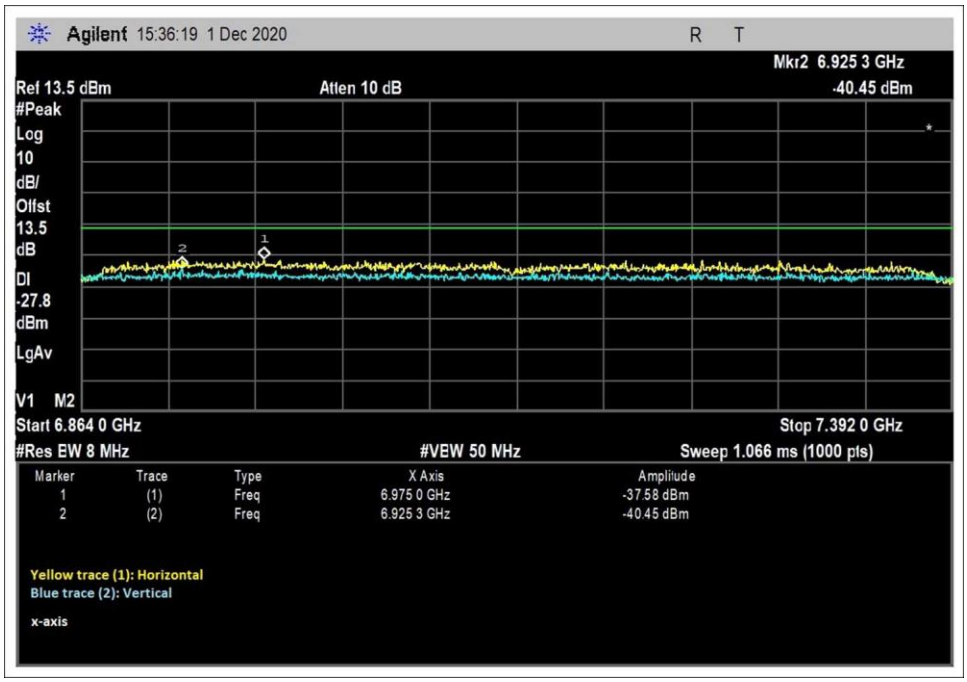

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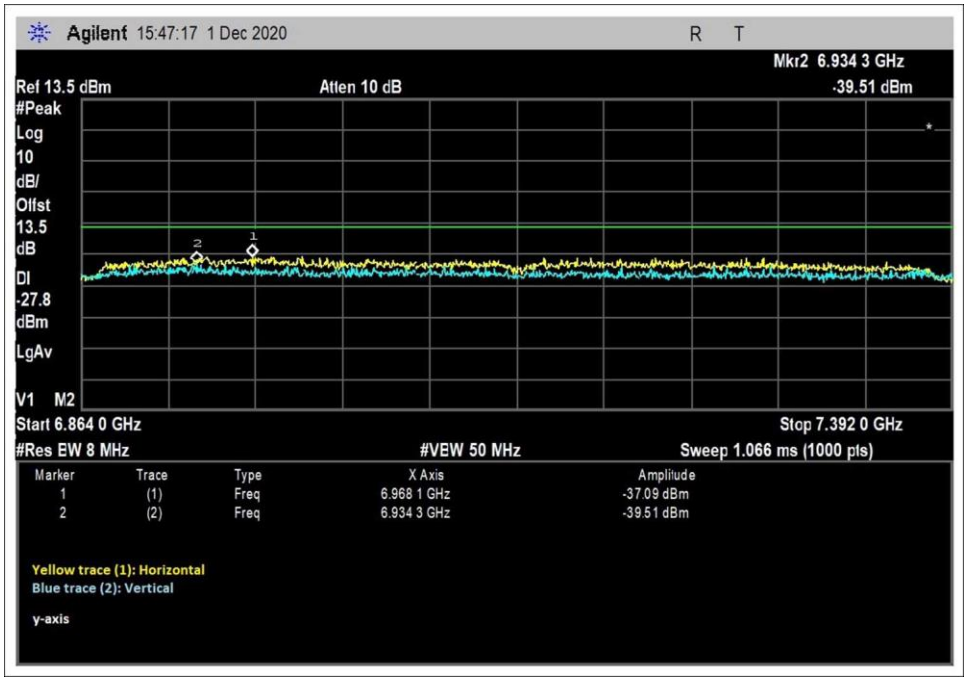

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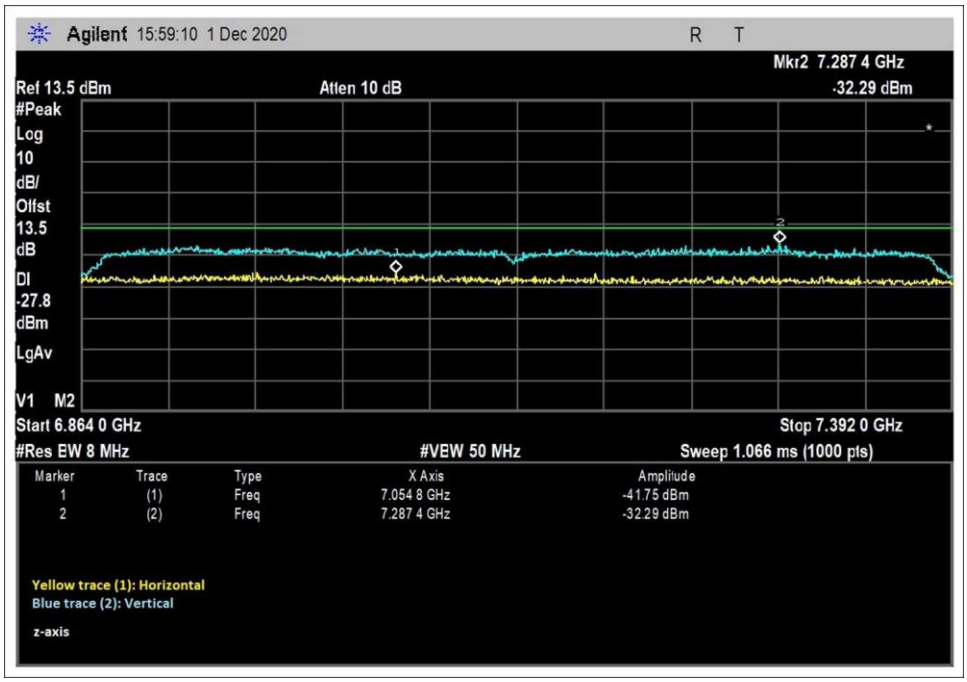

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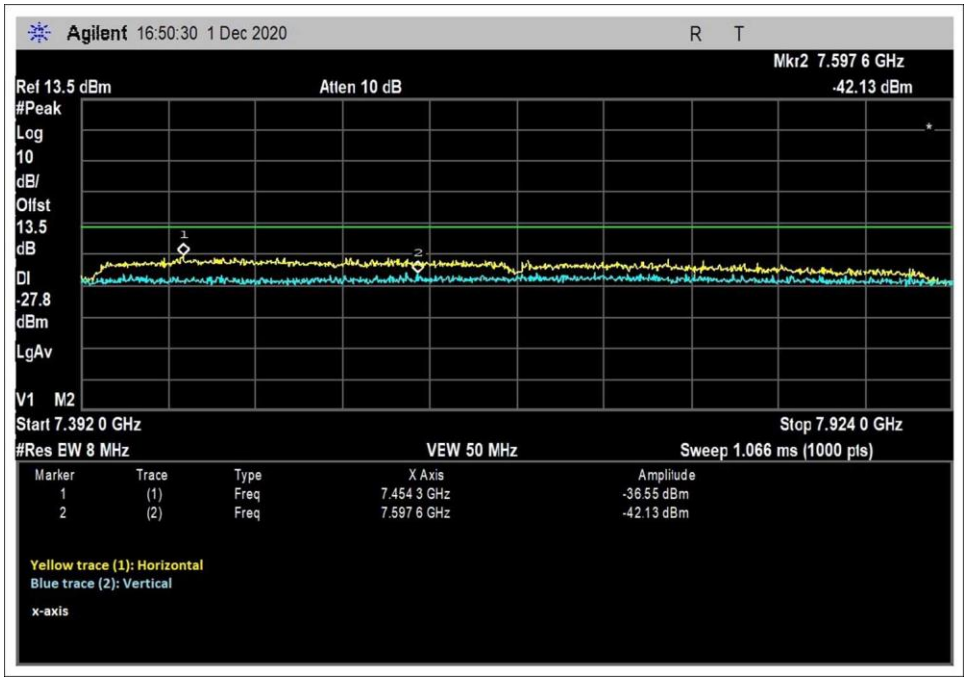
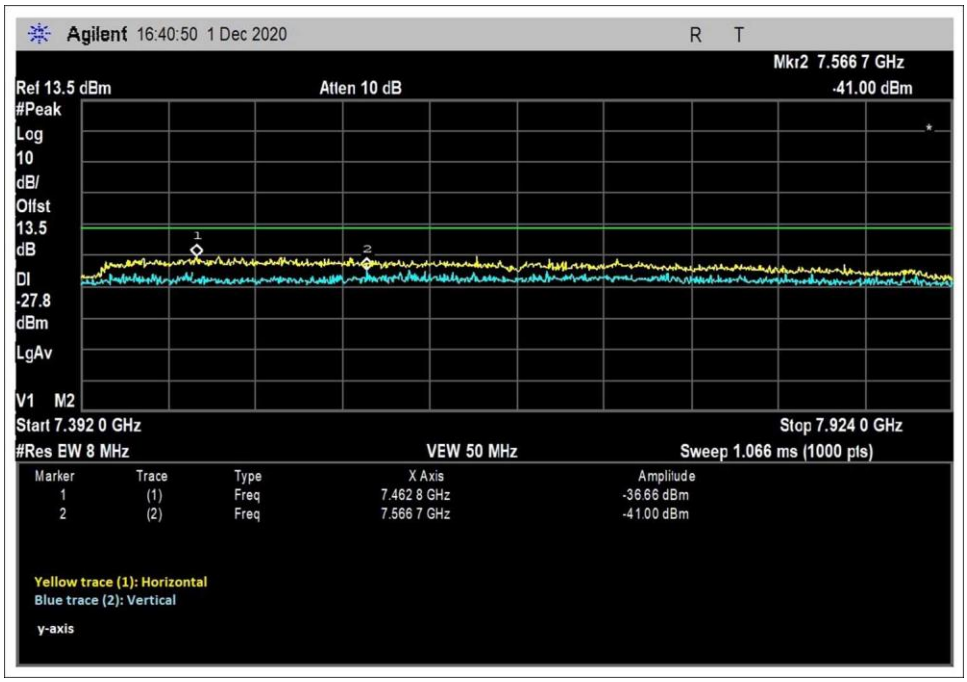


SB9; X – Axis



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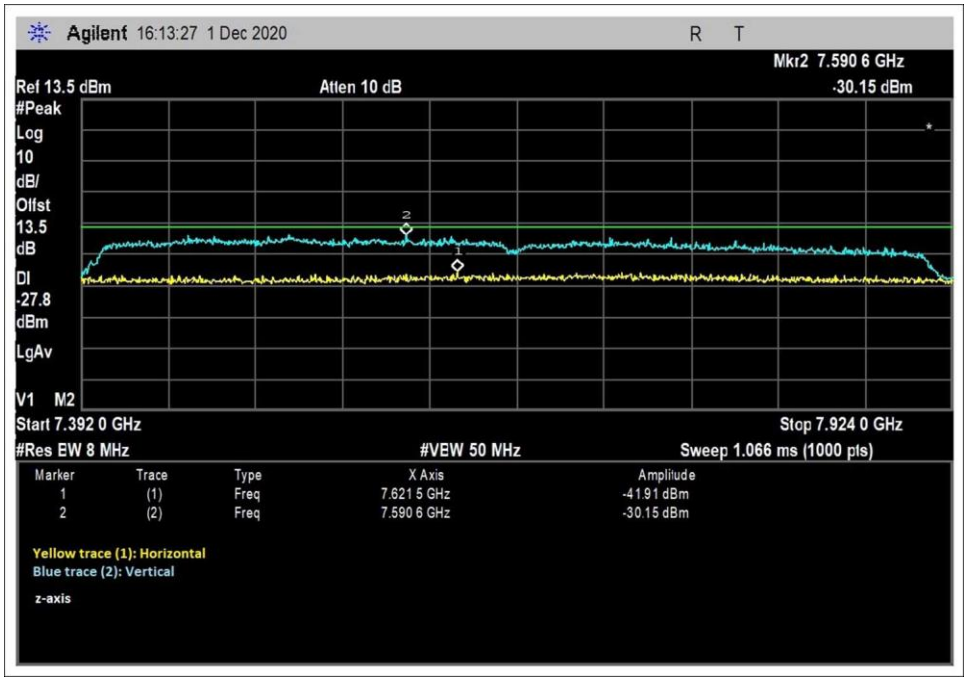
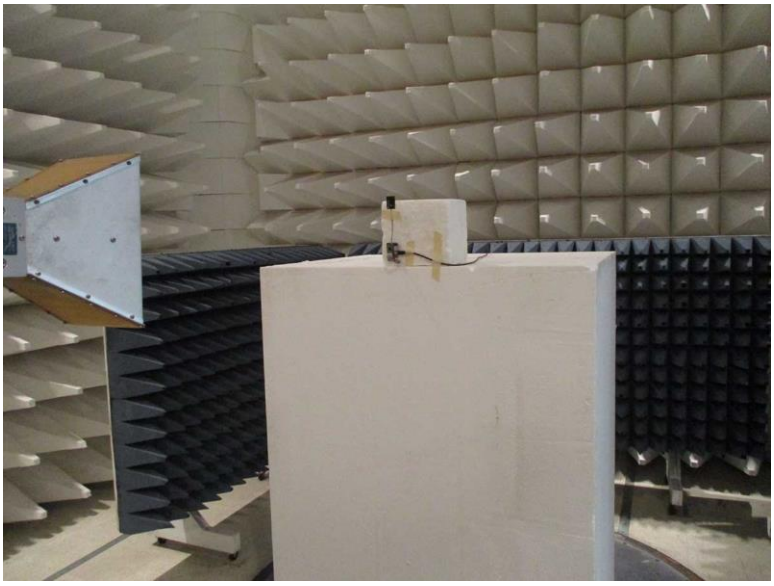
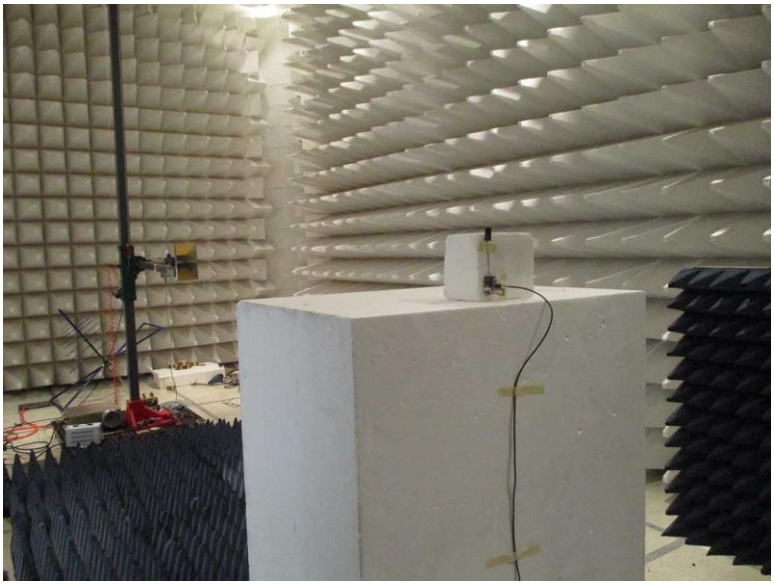


SB9; Z – Axis

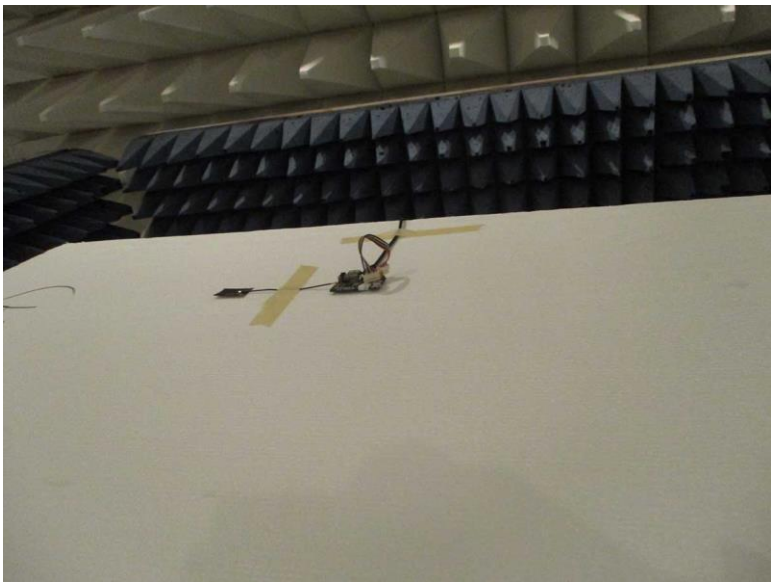
Test Setup Photo(s)



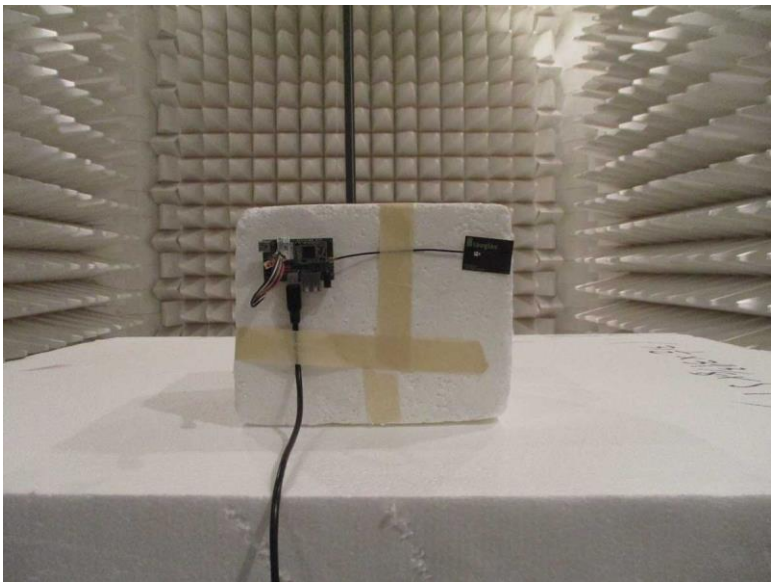
Overall Test Setup; Front View



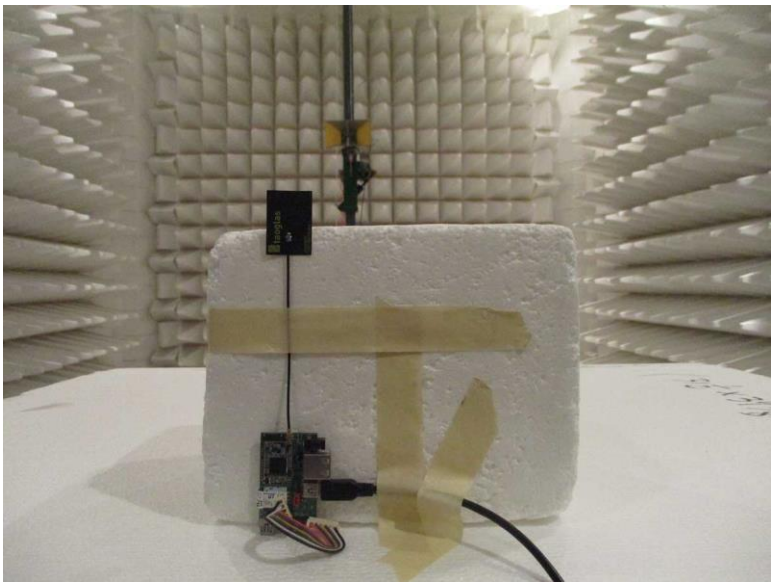
Overall test Setup; Back View



Overall Test Setup; X – Axis



Overall Test Setup; Y – Axis



Overall Test Setup; Z - Axis

SUPPLEMENTAL INFORMATION

Measurement Uncertainty

Uncertainty Value	Parameter
4.73 dB	Radiated Emissions
3.34 dB	Mains Conducted Emissions
3.30 dB	Disturbance Power

Uncertainties reported are worst case for all CKC Laboratories' sites and represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2. Compliance is deemed to occur provided measurements are below the specified limits.

Emissions Test Details

TESTING PARAMETERS

Unless otherwise indicated, the following configuration parameters are used for equipment setup: The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dBµV/m, the spectrum analyzer reading in dBµV was corrected by using the following formula. This reading was then compared to the applicable specification limit. Individual measurements were compared with the displayed limit value in the margin column. The margin was calculated based on subtracting the limit value from the corrected measurement value; a positive margin represents a measurement exceeding the limit, while a negative margin represents a measurement less than the limit.

SAMPLE CALCULATIONS		
	Meter reading	(dBµV)
+	Antenna Factor	(dB/m)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	(dBµV/m)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. Unless otherwise specified, the following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used.

MEASURING EQUIPMENT BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
CONDUCTED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	9 kHz	150 kHz	200 Hz
RADIATED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz
RADIATED EMISSIONS	1000 MHz	>1 GHz	1 MHz

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "positive peak" detector mode. Whenever a "quasi-peak" or "average" reading was recorded, the measurement was annotated with a "QP" or an "Ave" on the appropriate rows of the data sheets. In cases where quasi-peak or average limits were employed and data exists for multiple measurement types for the same frequency then the peak measurement was retained in the report for reference, however the numbering for the affected row was removed and an arrow or caret ("^") was placed in the far left-hand column indicating that the row above takes precedence for comparison to the limit. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer or receiver recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature called "peak hold," the measurement device had the ability to measure intermittent or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

Quasi-peak measurements were taken using the quasi-peak detector when the true peak values exceeded or were within 2 dB of a quasi-peak specification limit. Additional QP measurements may have been taken at the discretion of the operator.

Average

Average measurements were taken using the average detector when the true peak values exceeded or were within 2 dB of an average specification limit. Additional average measurements may have been taken at the discretion of the operator. If the specification or test procedure requires trace averaging, then the averaging was performed using 100 samples or as required by the specification. All other average measurements are performed using video bandwidth averaging. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.